

Arun K Iyer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4515554/publications.pdf>

Version: 2024-02-01

115
papers

9,751
citations

41258

49
h-index

35952

97
g-index

117
all docs

117
docs citations

117
times ranked

13956
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting the enhanced permeability and retention effect for tumor targeting. <i>Drug Discovery Today</i> , 2006, 11, 812-818.	3.2	1,633
2	PD-1 and PD-L1 Checkpoint Signaling Inhibition for Cancer Immunotherapy: Mechanism, Combinations, and Clinical Outcome. <i>Frontiers in Pharmacology</i> , 2017, 8, 561.	1.6	1,276
3	Hyaluronic acid based self-assembling nanosystems for CD44 target mediated siRNA delivery to solid tumors. <i>Biomaterials</i> , 2013, 34, 3489-3502.	5.7	314
4	Recent advances in dendrimer-based nanovectors for tumor-targeted drug and gene delivery. <i>Drug Discovery Today</i> , 2015, 20, 536-547.	3.2	310
5	siRNA Delivery Strategies: A Comprehensive Review of Recent Developments. <i>Nanomaterials</i> , 2017, 7, 77.	1.9	298
6	PEGylated PAMAM dendrimers: Enhancing efficacy and mitigating toxicity for effective anticancer drug and gene delivery. <i>Acta Biomaterialia</i> , 2016, 43, 14-29.	4.1	296
7	Role of integrated cancer nanomedicine in overcoming drug resistance. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1784-1802.	6.6	288
8	PAMAM dendrimers as promising nanocarriers for RNAi therapeutics. <i>Materials Today</i> , 2015, 18, 565-572.	8.3	219
9	Dendrimer nanoarchitectures for cancer diagnosis and anticancer drug delivery. <i>Drug Discovery Today</i> , 2017, 22, 314-326.	3.2	174
10	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, 413-423.	2.5	170
11	Recent advances in hyaluronic acid-decorated nanocarriers for targeted cancer therapy. <i>Drug Discovery Today</i> , 2017, 22, 665-680.	3.2	165
12	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.	11.8	150
13	Doxorubicin loaded Polymeric Nanoparticulate Delivery System to overcome drug resistance in osteosarcoma. <i>BMC Cancer</i> , 2009, 9, 399.	1.1	139
14	Advances in antibody-drug conjugates: A new era of targeted cancer therapy. <i>Drug Discovery Today</i> , 2017, 22, 1547-1556.	3.2	139
15	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.	2.6	130
16	In vivo biodistribution of siRNA and cisplatin administered using CD44-targeted hyaluronic acid nanoparticles. <i>Journal of Controlled Release</i> , 2013, 172, 699-706.	4.8	128
17	Inhibition of ABCB1 (MDR1) Expression by an siRNA Nanoparticulate Delivery System to Overcome Drug Resistance in Osteosarcoma. <i>PLoS ONE</i> , 2010, 5, e10764.	1.1	128
18	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, 3042-3053.	2.6	127

#	ARTICLE	IF	CITATIONS
19	Multifunctional nanoparticles for cancer immunotherapy: A groundbreaking approach for reprogramming malfunctioned tumor environment. <i>Journal of Controlled Release</i> , 2018, 274, 24-34.	4.8	123
20	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.	2.3	113
21	Combinatorial-Designed Multifunctional Polymeric Nanosystems for Tumor-Targeted Therapeutic Delivery. <i>Accounts of Chemical Research</i> , 2011, 44, 1009-1017.	7.6	110
22	MDR1 siRNA loaded hyaluronic acid-based CD44 targeted nanoparticle systems circumvent paclitaxel resistance in ovarian cancer. <i>Scientific Reports</i> , 2015, 5, 8509.	1.6	109
23	The use of nanoscaffolds and dendrimers in tissue engineering. <i>Drug Discovery Today</i> , 2017, 22, 652-664.	3.2	108
24	Dendrimer nano hybrid carrier systems: an expanding horizon for targeted drug and gene delivery. <i>Drug Discovery Today</i> , 2018, 23, 300-314.	3.2	100
25	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.	2.1	99
26	Recent advances in TPGS-based nanoparticles of docetaxel for improved chemotherapy. <i>International Journal of Pharmaceutics</i> , 2017, 529, 506-522.	2.6	95
27	High-loading nanosized micelles of copoly(styrene- <i>co</i> -maleic acid)-zinc protoporphyrin for targeted delivery of a potent heme oxygenase inhibitor. <i>Biomaterials</i> , 2007, 28, 1871-1881.	5.7	91
28	Comprehensive review on various strategies for antimalarial drug discovery. <i>European Journal of Medicinal Chemistry</i> , 2017, 125, 1300-1320.	2.6	87
29	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.	5.0	86
30	Parenterally administrable nano-micelles of 3,4-difluorobenzylidene curcumin for treating pancreatic cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 132, 138-145.	2.5	85
31	Progress in Clinical Trials of Photodynamic Therapy for Solid Tumors and the Role of Nanomedicine. <i>Cancers</i> , 2020, 12, 2793.	1.7	84
32	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.	4.8	82
33	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.	2.5	81
34	Nanostructured lipid carriers employing polyphenols as promising anticancer agents: Quality by design (QbD) approach. <i>International Journal of Pharmaceutics</i> , 2017, 526, 506-515.	2.6	78
35	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, 2097-2109.	1.7	75
36	Dendrimer-mediated approaches for the treatment of brain tumor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 557-580.	1.9	75

#	ARTICLE	IF	CITATIONS
37	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.	2.5	75
38	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.	3.2	73
39	<i>In Vivo</i> 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, 4247-4258.	2.3	69
40	PLGA Nanoparticles and Their Versatile Role in Anticancer Drug Delivery. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2016, 33, 159-193.	1.2	69
41	pH Responsive 5-Fluorouracil Loaded Biocompatible Nanogels For Topical Chemotherapy of Aggressive Melanoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 232-245.	2.5	65
42	Fluorescence-guided optical coherence tomography imaging for colon cancer screening: a preliminary mouse study. <i>Biomedical Optics Express</i> , 2012, 3, 178.	1.5	64
43	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.	3.2	62
44	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.	5.0	60
45	pH responsive biodegradable nanogels for sustained release of bleomycin. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4595-4613.	1.4	59
46	Oxystress inducing antitumor therapeutics <i>via</i> tumor-targeted delivery of PEG-conjugated D-lysine amino acid oxidase. <i>International Journal of Cancer</i> , 2008, 122, 1135-1144.	2.3	57
47	Tumor hypoxia directed multimodal nanotherapy for overcoming drug resistance in renal cell carcinoma and reprogramming macrophages. <i>Biomaterials</i> , 2018, 183, 280-294.	5.7	57
48	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.	1.7	53
49	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.	5.0	50
50	Nanomedicine for cancer diagnosis and therapy: advancement, success and structure-activity relationship. <i>Therapeutic Delivery</i> , 2017, 8, 1003-1018.	1.2	49
51	The effect of internalizing human single chain antibody fragment on liposome targeting to epithelioid and sarcomatoid mesothelioma. <i>Biomaterials</i> , 2011, 32, 2605-2613.	5.7	45
52	Nanodelivery Systems for Nucleic Acid Therapeutics in Drug Resistant Tumors. <i>Molecular Pharmaceutics</i> , 2014, 11, 2511-2526.	2.3	44
53	Dendrimers as an Effective Nanocarrier in Cardiovascular Disease. <i>Current Pharmaceutical Design</i> , 2015, 21, 4519-4526.	0.9	44
54	PDL-1 Antibody Drug Conjugate for Selective Chemo-Guided Immune Modulation of Cancer. <i>Cancers</i> , 2019, 11, 232.	1.7	43

#	ARTICLE	IF	CITATIONS
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.	1.7	42
56	Transferrin: Biology and Use in Receptor-Targeted Nanotherapy of Gliomas. <i>ACS Omega</i> , 2021, 6, 8727-8733.	1.6	42
57	Development of asialoglycoprotein receptor directed nanoparticles for selective delivery of curcumin derivative to hepatocellular carcinoma. <i>Heliyon</i> , 2018, 4, e01071.	1.4	41
58	Styrene Maleic Acid-Pirarubicin Disrupts Tumor Microcirculation and Enhances the Permeability of Colorectal Liver Metastases. <i>Journal of Vascular Research</i> , 2009, 46, 218-228.	0.6	40
59	Lipid-functionalized Dextran Nanosystems to Overcome Multidrug Resistance in Cancer: A Pilot Study. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 915-925.	0.7	37
60	Folate Decorated Nanomicelles Loaded with a Potent Curcumin Analogue for Targeting Retinoblastoma. <i>Pharmaceutics</i> , 2017, 9, 15.	2.0	35
61	Targeting Prostate Cancer Cells In Vivo Using a Rapidly Internalizing Novel Human Single-Chain Antibody Fragment. <i>Journal of Nuclear Medicine</i> , 2010, 51, 427-432.	2.8	33
62	Folate Receptorsâ€™™ Expression in Gliomas May Possess Potential Nanoparticle-Based Drug Delivery Opportunities. <i>ACS Omega</i> , 2021, 6, 4111-4118.	1.6	33
63	pH-Responsive Triblock Copolymeric Micelles Decorated with a Cell-Penetrating Peptide Provide Efficient Doxorubicin Delivery. <i>Nanoscale Research Letters</i> , 2016, 11, 539.	3.1	32
64	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.	1.4	30
65	Novel approaches for the treatment of methicillin-resistant <i>Staphylococcus aureus</i> : Using nanoparticles to overcome multidrug resistance. <i>Drug Discovery Today</i> , 2021, 26, 31-43.	3.2	30
66	Radiolabeled Oligonucleotides for Antisense Imaging. <i>Current Organic Synthesis</i> , 2011, 8, 604-614.	0.7	28
67	Improving the therapeutic efficiency of noncoding RNAs in cancers using targeted drug delivery systems. <i>Drug Discovery Today</i> , 2020, 25, 718-730.	3.2	28
68	Interactions Between Tumor Biology and Targeted Nanoplatforms for Imaging Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1910402.	7.8	28
69	SMAâ€™™copolymer conjugate of AHPP: A polymeric inhibitor of xanthine oxidase with potential antihypertensive effect. <i>Journal of Controlled Release</i> , 2009, 135, 211-217.	4.8	27
70	Copper-Free â€™™Clickâ€™™ 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, 838.	1.8	27
71	Evaluation of the effect of SMAâ€™™pirarubicin micelles on colorectal cancer liver metastases and of hyperbaric oxygen in CBA mice. <i>Journal of Drug Targeting</i> , 2007, 15, 487-495.	2.1	25
72	Graphene Decorated Zinc Oxide and Curcumin to Disinfect the Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Nanomaterials</i> , 2020, 10, 1004.	1.9	25

#	ARTICLE	IF	CITATIONS
73	Multifunctional nanoparticles for targeting cancer and inflammatory diseases. <i>Journal of Drug Targeting</i> , 2013, 21, 888-903.	2.1	24
74	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.	3.2	24
75	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.	3.6	22
76	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.	0.8	22
77	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, 1461-1470.	0.2	19
78	Novel Human Single Chain Antibody Fragments That Are Rapidly Internalizing Effectively Target Epithelioid and Sarcomatoid Mesotheliomas. <i>Cancer Research</i> , 2011, 71, 2428-2432.	0.4	18
79	LDL receptors and their role in targeted therapy for glioma: a review. <i>Drug Discovery Today</i> , 2021, 26, 1212-1225.	3.2	18
80	Combination of Vancomycin and Cefazolin Lipid Nanoparticles for Overcoming Antibiotic Resistance of MRSA. <i>Materials</i> , 2018, 11, 1245.	1.3	17
81	Nano-constructed Carriers Loaded With Antioxidant: Boon For Cardiovascular System. <i>Current Pharmaceutical Design</i> , 2015, 21, 4456-4464.	0.9	17
82	CD44 Targeted Nanomaterials for Treatment of Triple-Negative Breast Cancer. <i>Cancers</i> , 2021, 13, 898.	1.7	16
83	Tissue protective effect of xanthine oxidase inhibitor, polymer conjugate of (styrene- ϵ -maleic acid) Tj ETQq1 1 0.784314 rgBT /Overlook injury. <i>Experimental Biology and Medicine</i> , 2010, 235, 487-496.	1.1	15
84	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, 2362.	1.7	14
85	Molecular Docking Analysis of Caspase-3 Activators as Potential Anticancer Agents. <i>Current Computer-Aided Drug Design</i> , 2018, 15, 55-66.	0.8	13
86	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.	3.2	12
87	Nano-therapeutic strategies to target coronavirus. <i>View</i> , 2021, 2, 20200155.	2.7	11
88	A CARP-1 functional mimetic compound is synergistic with BRAF-targeting in non-small cell lung cancers. <i>Oncotarget</i> , 2018, 9, 29680-29697.	0.8	11
89	Polymeric microspheres: a delivery system for osteogenic differentiation. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1595-1609.	1.6	10
90	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.	1.3	9

#	ARTICLE	IF	CITATIONS
91	Overcoming the Tumor Microenvironmental Barriers of Pancreatic Ductal Adenocarcinomas for Achieving Better Treatment Outcomes. <i>Advanced Therapeutics</i> , 2021, 4, 2000262.	1.6	9
92	Folate Functionalized Lipid Nanoparticles for Targeted Therapy of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Pharmaceutics</i> , 2021, 13, 1791.	2.0	9
93	Discovering pH triggered charge rebound surface modulated topical nanotherapy against aggressive skin papilloma. <i>Materials Science and Engineering C</i> , 2020, 107, 110263.	3.8	8
94	Comparison of Tau and Amyloid- β^2 Targeted Immunotherapy Nanoparticles for Alzheimer's Disease. <i>Biomolecules</i> , 2022, 12, 1001.	1.8	7
95	Multiple strategies for the treatment of invasive breast carcinoma: A comprehensive prospective. <i>Drug Discovery Today</i> , 2022, 27, 585-611.	3.2	6
96	Immunotherapy and molecular role of T-cell in PD-1 antibody treated resectable lung cancer patients. <i>Journal of Thoracic Disease</i> , 2018, 10, 4682-4685.	0.6	5
97	Multifunctional Stimuli-Responsive Nanoparticles for Targeted Delivery of Small and Macromolecular Therapeutics. , 2010, , 555-585.		4
98	Nanogels: A New Dawn in Antimicrobial Chemotherapy. , 2017, , 101-137.		3
99	Nanomaterials for tumor immunomodulation and overcoming current clinical challenges. <i>Nanomedicine</i> , 2019, 14, 1515-1519.	1.7	3
100	A Biomimetic Drug Delivery System Targeting Tumor Hypoxia in Triple-Negative Breast Cancers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1075.	1.3	3
101	Nanoparticles for Immune Cell Reprogramming and Reengineering of Tumor Microenvironment. <i>Methods in Molecular Biology</i> , 2020, 2097, 211-221.	0.4	3
102	Bioinspired hyaluronic acid based nanofibers immobilized with 3, 4- difluorobenzylidene curcumin for treating bacterial infections. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 74, 103480.	1.4	3
103	Combined phased-array ultrasound and photoacoustic endoscope for gynecologic cancer imaging applications. , 2018, , .		2
104	Polymeric Nanosystems for Integrated Image-Guided Cancer Therapy. <i>Frontiers in Nanobiomedical Research</i> , 2014, , 199-233.	0.1	1
105	Image-Guided Delivery of Therapeutics to the Brain. <i>Advances in Delivery Science and Technology</i> , 2015, , 151-177.	0.4	1
106	Comparing and Contrasting MERS, SARS-CoV, and SARS-CoV-2: Prevention, Transmission, Management, and Vaccine Development. <i>Pathogens</i> , 2020, 9, 985.	1.2	1
107	Imaging the cellular components of the immune system for advancing diagnosis and immunotherapy of cancers. <i>Materials Today Advances</i> , 2021, 10, 100138.	2.5	1
108	Abstract 3526: Inhibition of ABCB1 (MDR1) expression by an siRNA nanoparticulate delivery system to overcome drug resistance in osteosarcoma. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
109	Nanomedicine for overcoming therapeutic and diagnostic challenges associated with pancreatic cancer. Drug Discovery Today, 2022, , .	3.2	1
110	RISK OF HEART FAILURE IN SYSTEMIC SCLEROSIS. Journal of the American College of Cardiology, 2017, 69, 800.	1.2	0
111	RED CELL DISTRIBUTION WIDTH (RDW) PREDICTS MAJOR ADVERSE CARDIAC EVENTS IN SYSTEMIC LUPUS ERYTHEMATOSUS. Journal of the American College of Cardiology, 2017, 69, 1806.	1.2	0
112	Imaging tools to enhance animal tumor models for cancer research and drug discovery. , 2019, , 75-106.		0
113	Polymeric Nanoparticles as Target-Specific Delivery Systems. , 2011, , 81-130.		0
114	Nano-Platforms for Tumor-Targeted Delivery of Nucleic Acid Therapies. Advances in Delivery Science and Technology, 2014, , 269-291.	0.4	0
115	Exploring siRNA Umpired Nanogels: A Tale of Barrier Combating Carrier. Current Pharmaceutical Design, 2020, 26, 3234-3250.	0.9	0