

# Rangaramanujam M Kannan

## List of Publications by Citations

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82  
papers

3,877  
citations

32  
h-index

61  
g-index

91  
ext. papers

4,440  
ext. citations

8.6  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
82	Dendrimer-based drug and imaging conjugates: design considerations for nanomedical applications. <i>Drug Discovery Today</i> , <b>2010</b> , 15, 171-85	8.8	638
81	The effect of surface functionality on cellular trafficking of dendrimers. <i>Biomaterials</i> , <b>2008</b> , 29, 3469-76	15.6	317
80	Dendrimer-based postnatal therapy for neuroinflammation and cerebral palsy in a rabbit model. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 130ra46	17.5	268
79	Poly(amidoamine) dendrimer-drug conjugates with disulfide linkages for intracellular drug delivery. <i>Biomaterials</i> , <b>2009</b> , 30, 2112-21	15.6	182
78	Dendrimer-based targeted intravitreal therapy for sustained attenuation of neuroinflammation in retinal degeneration. <i>Biomaterials</i> , <b>2012</b> , 33, 979-88	15.6	145
77	Dendrimer-drug conjugates for tailored intracellular drug release based on glutathione levels. <i>Bioconjugate Chemistry</i> , <b>2008</b> , 19, 2446-55	6.3	142
76	Drug release characteristics of PAMAM dendrimer-drug conjugates with different linkers. <i>International Journal of Pharmaceutics</i> , <b>2010</b> , 384, 189-94	6.5	134
75	Dendrimer brain uptake and targeted therapy for brain injury in a large animal model of hypothermic circulatory arrest. <i>ACS Nano</i> , <b>2014</b> , 8, 2134-47	16.7	101
74	Intrinsic targeting of inflammatory cells in the brain by polyamidoamine dendrimers upon subarachnoid administration. <i>Nanomedicine</i> , <b>2010</b> , 5, 1317-29	5.6	88
73	Biodistribution of fluorescently labeled PAMAM dendrimers in neonatal rabbits: effect of neuroinflammation. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 4560-71	5.6	87
72	Nanoscale effects in dendrimer-mediated targeting of neuroinflammation. <i>Biomaterials</i> , <b>2016</b> , 101, 96-107	10.6	80
71	Subconjunctival injectable dendrimer-dexamethasone gel for the treatment of corneal inflammation. <i>Biomaterials</i> , <b>2017</b> , 125, 38-53	15.6	77
70	Dendrimer nanoparticles for ocular drug delivery. <i>Journal of Ocular Pharmacology and Therapeutics</i> , <b>2013</b> , 29, 151-65	2.6	76
69	Systemic dendrimer-drug treatment of ischemia-induced neonatal white matter injury. <i>Journal of Controlled Release</i> , <b>2015</b> , 214, 112-20	11.7	72
68	Poly(amidoamine) dendrimer-erythromycin conjugates for drug delivery to macrophages involved in periprosthetic inflammation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2011</b> , 7, 284-94	6	70
67	Targeting Mitochondrial Dysfunction and Oxidative Stress in Activated Microglia using Dendrimer-Based Therapeutics. <i>Theranostics</i> , <b>2018</b> , 8, 5529-5547	12.1	69
66	Uniform brain tumor distribution and tumor associated macrophage targeting of systemically administered dendrimers. <i>Biomaterials</i> , <b>2015</b> , 52, 507-16	15.6	63

65	Systemic and Intravitreal Delivery of Dendrimers to Activated Microglia/Macrophage in Ischemia/Reperfusion Mouse Retina <b>2015</b> , 56, 4413-24		55
64	Multifunctional Dendrimer-templated Antibody Presentation on Biosensor Surfaces for Improved Biomarker Detection. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 409-421	15.6	54
63	Cognitive impairments induced by necrotizing enterocolitis can be prevented by inhibiting microglial activation in mouse brain. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	54
62	Hydroxyl PAMAM dendrimer-based gene vectors for transgene delivery to human retinal pigment epithelial cells. <i>Nanoscale</i> , <b>2015</b> , 7, 3845-56	7.7	51
61	Generation-6 hydroxyl PAMAM dendrimers improve CNS penetration from intravenous administration in a large animal brain injury model. <i>Journal of Controlled Release</i> , <b>2017</b> , 249, 173-182	11.7	50
60	Targeting specific cells in the brain with nanomedicines for CNS therapies. <i>Journal of Controlled Release</i> , <b>2016</b> , 240, 212-226	11.7	50
59	Effect of mannose targeting of hydroxyl PAMAM dendrimers on cellular and organ biodistribution in a neonatal brain injury model. <i>Journal of Controlled Release</i> , <b>2018</b> , 283, 175-189	11.7	50
58	Maternal dendrimer-based therapy for inflammation-induced preterm birth and perinatal brain injury. <i>Scientific Reports</i> , <b>2017</b> , 7, 6106	4.9	50
57	Activated Microglia Targeting Dendrimer-Minocycline Conjugate as Therapeutics for Neuroinflammation. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 2874-2886	6.3	49
56	Dendrimer-mediated delivery of N-acetyl cysteine to microglia in a mouse model of Rett syndrome. <i>Journal of Neuroinflammation</i> , <b>2017</b> , 14, 252	10.1	49
55	Intracellular delivery of dendrimer triamcinolone acetonide conjugates into microglial and human retinal pigment epithelial cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2015</b> , 95, 239-49	5.7	47
54	Rheoptical Fourier transform infrared spectroscopy of the deformation behavior in quenched and slow-cooled isotactic polypropylene films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2002</b> , 40, 2539-2551	2.6	47
53	Dendrimer mediated targeted delivery of sinomenine for the treatment of acute neuroinflammation in traumatic brain injury. <i>Journal of Controlled Release</i> , <b>2020</b> , 323, 361-375	11.7	41
52	Uptake of dendrimer-drug by different cell types in the hippocampus after hypoxic-ischemic insult in neonatal mice: Effects of injury, microglial activation and hypothermia. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2017</b> , 13, 2359-2369	6	37
51	Concurrent quantification of tryptophan and its major metabolites. <i>Analytical Biochemistry</i> , <b>2013</b> , 443, 222-31	3.1	36
50	Supercritical Carbon Dioxide-Processed Dispersed Polystyrene/Clay Nanocomposites. <i>Macromolecules</i> , <b>2008</b> , 41, 8038-8046	5.5	31
49	Scalable synthesis and validation of PAMAM dendrimer--acetyl cysteine conjugate for potential translation. <i>Bioengineering and Translational Medicine</i> , <b>2018</b> , 3, 87-101	14.8	30
48	Dense hydroxyl polyethylene glycol dendrimer targets activated glia in multiple CNS disorders. <i>Science Advances</i> , <b>2020</b> , 6, eaay8514	14.3	29

47	Folate-functionalized dendrimers for targeting Chlamydia-infected tissues in a mouse model of reactive arthritis. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 466, 258-65	6.5	29
46	Enhancing the efficacy of Ara-C through conjugation with PAMAM dendrimer and linear PEG: a comparative study. <i>Biomacromolecules</i> , <b>2013</b> , 14, 801-10	6.9	28
45	Fetal uptake of intra-amniotically delivered dendrimers in a mouse model of intrauterine inflammation and preterm birth. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 1343-51	6	27
44	Surface functionality affects the biodistribution and microglia-targeting of intra-amniotically delivered dendrimers. <i>Journal of Controlled Release</i> , <b>2016</b> , 237, 61-70	11.7	26
43	A dendrimer-based immunosensor for improved capture and detection of tumor necrosis factor- $\alpha$ cytokine. <i>Analytica Chimica Acta</i> , <b>2012</b> , 720, 118-25	6.6	22
42	FTIR spectroscopic investigation of thermal effects in semi-syndiotactic polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 439-461	2.6	22
41	Dendrimer size effects on the selective brain tumor targeting in orthotopic tumor models upon systemic administration. <i>Bioengineering and Translational Medicine</i> , <b>2020</b> , 5, e10160	14.8	21
40	Preferential and Increased Uptake of Hydroxyl-Terminated PAMAM Dendrimers by Activated Microglia in Rabbit Brain Mixed Glial Culture. <i>Molecules</i> , <b>2018</b> , 23,	4.8	18
39	Subconjunctival dendrimer-drug therapy for the treatment of dry eye in a rabbit model of induced autoimmune dacryoadenitis. <i>Ocular Surface</i> , <b>2018</b> , 16, 415-423	6.5	17
38	Leveraging the interplay of nanotechnology and neuroscience: Designing new avenues for treating central nervous system disorders. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 148, 181-203	18.5	14
37	Pediatric oral formulation of dendrimer-N-acetyl-L-cysteine conjugates for the treatment of neuroinflammation. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 545, 113-116	6.5	14
36	Dendrimer-enabled transformation of Chlamydia trachomatis. <i>Microbial Pathogenesis</i> , <b>2013</b> , 65, 29-35	3.8	14
35	Dendrimer-Mediated Targeted Delivery of Rapamycin to Tumor-Associated Macrophages Improves Systemic Treatment of Glioblastoma. <i>Biomacromolecules</i> , <b>2020</b> , 21, 5148-5161	6.9	14
34	Investigation of clay modifier effects on the structure and rheology of supercritical carbon dioxide-processed polymer nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 823-831	2.6	12
33	Supercritical carbon dioxide (scCO <sub>2</sub> ) dispersion of poly(ethylene terephthalate)/clay nanocomposites: Structural, mechanical, thermal, and barrier properties. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	11
32	Quantitative assessment of surface functionality effects on microglial uptake and retention of PAMAM dendrimers. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	11
31	Unusual contributions of molecular architecture to rheology and flow birefringence in hyperbranched polystyrene melts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 2562-2571	2.6	11
30	Nanotechnology Approaches to Targeting Inflammation and Excitotoxicity in a Canine Model of Hypothermic Circulatory Arrest-Induced Brain Injury. <i>Annals of Thoracic Surgery</i> , <b>2016</b> , 102, 743-750	2.7	11

29	Systemic dendrimer delivery of triptolide to tumor-associated macrophages improves anti-tumor efficacy and reduces systemic toxicity in glioblastoma. <i>Journal of Controlled Release</i> , <b>2021</b> , 329, 434-444	11.7	11
28	In vivo bone formation by and inflammatory response to resorbable polymer-nanoclay constructs. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 1871-81	6	10
27	Targeting Mitochondria in Tumor-Associated Macrophages using a Dendrimer-Conjugated TSPO Ligand that Stimulates Antitumor Signaling in Glioblastoma. <i>Biomacromolecules</i> , <b>2020</b> , 21, 3909-3922	6.9	10
26	Evolution of oxidative stress, inflammation and neovascularization in the choroid and retina in a subretinal lipid induced age-related macular degeneration model. <i>Experimental Eye Research</i> , <b>2021</b> , 203, 108391	3.7	10
25	Selective Localization of a Novel Dendrimer Nanoparticle in Myocardial Ischemia-Reperfusion Injury. <i>Annals of Thoracic Surgery</i> , <b>2017</b> , 104, 891-898	2.7	9
24	Thermosensitive and biodegradable hydrogel encapsulating targeted nanoparticles for the sustained co-delivery of gemcitabine and paclitaxel to pancreatic cancer cells. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 593, 120139	6.5	9
23	Glycosylation of PAMAM dendrimers significantly improves tumor macrophage targeting and specificity in glioblastoma. <i>Journal of Controlled Release</i> , <b>2021</b> , 337, 179-192	11.7	9
22	A Rheo-Optical FTIR Spectrometer for Investigating Molecular Orientation and Viscoelastic Behavior in Polymers. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2004</b> , 9, 245-274	1.7	8
21	Dendrimer-conjugated glutaminase inhibitor selectively targets microglial glutaminase in a mouse model of Rett syndrome. <i>Theranostics</i> , <b>2020</b> , 10, 5736-5748	12.1	8
20	Dendrimer-tesaglitazar conjugate induces a phenotype shift of microglia and enhances amyloid phagocytosis. <i>Nanoscale</i> , <b>2021</b> , 13, 939-952	7.7	7
19	Dendrimer-enabled transformation of Anaplasma phagocytophilum. <i>Microbes and Infection</i> , <b>2015</b> , 17, 817-22	9.3	4
18	Rheo-optical measurements of the first and third normal stresses of homopolymer poly(vinyl methyl ether) melt. <i>Rheologica Acta</i> , <b>2006</b> , 45, 951-958	2.3	4
17	Systemic dendrimer-drug nanomedicines for long-term treatment of mild-moderate cerebral palsy in a rabbit model. <i>Journal of Neuroinflammation</i> , <b>2020</b> , 17, 319	10.1	4
16	Targeted systemic dendrimer delivery of CSF-1R inhibitor to tumor-associated macrophages improves outcomes in orthotopic glioblastoma. <i>Bioengineering and Translational Medicine</i> , <b>2021</b> , 6, e10205	14.8	4
15	Toward new design principles for superior gene silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3200-3201	11.5	3
14	Dendrimers and Hyperbranched Polymers for Drug Delivery	105-129	3
13	Dendrimer-2PMPA selectively blocks upregulated microglial GCPII activity and improves cognition in a mouse model of multiple sclerosis.. <i>Nanotheranostics</i> , <b>2022</b> , 6, 126-142	5.6	3
12	Dendrimer-Triamcinolone Acetonide Reduces Neuroinflammation, Pathological Angiogenesis, and Neuroretinal Dysfunction in Ischemic Retinopathy. <i>Advanced Therapeutics</i> , <b>2021</b> , 4, 2000181	4.9	3

11	Cellular Interactions of Nano Drug Delivery Systems	113-136		2
10	ssDNA nanotubes for selective targeting of glioblastoma and delivery of doxorubicin for enhanced survival. <i>Science Advances</i> , <b>2021</b> , 7, eabl5872		14.3	2
9	Glial restricted precursor delivery of dendrimer N-acetylcysteine promotes migration and differentiation following transplant in mouse white matter injury model. <i>Nanoscale</i> , <b>2020</b> , 12, 16063-16068		7.7	2
8	Dendrimer-2PMPA Delays Muscle Function Loss and Denervation in a Murine Model of Amyotrophic Lateral Sclerosis.. <i>Neurotherapeutics</i> , <b>2022</b> , 1		6.4	1
7	NMDA Receptor Antagonism for Neuroprotection in a Canine Model of Hypothermic Circulatory Arrest. <i>Journal of Surgical Research</i> , <b>2021</b> , 260, 177-189		2.5	1
6	Rationally Designed Galactose Dendrimer for Hepatocyte-Specific Targeting and Intracellular Drug Delivery for the Treatment of Liver Disorders. <i>Biomacromolecules</i> , <b>2021</b> , 22, 3574-3589		6.9	1
5	Systemic dendrimer nanotherapies for targeted suppression of choroidal inflammation and neovascularization in age-related macular degeneration. <i>Journal of Controlled Release</i> , <b>2021</b> , 335, 527-540		11.7	1
4	Targeted drug delivery for maternal and perinatal health: Challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 177, 113950		18.5	1
3	Dendrimer-Based N-Acetyl Cysteine Maternal Therapy Ameliorates Placental Inflammation Maintenance of M1/M2 Macrophage Recruitment.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 819593		5.8	0
2	Systemic administration of dendrimer N-acetyl cysteine improves outcomes and survival following cardiac arrest.. <i>Bioengineering and Translational Medicine</i> , <b>2022</b> , 7, e10259		14.8	0
1	Cellular Trafficking of Dendrimers	<b>2010</b> , 231-246		