

# Sujatha Kannan

## List of Publications by Year in Descending Order

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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.

100  
papers

4,901  
citations

41  
h-index

68  
g-index

111  
ext. papers

5,619  
ext. citations

7.3  
avg, IF

5.61  
L-index

#	Paper	IF	Citations
100	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
99	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
98	Acute Neurologic Dysfunction in Critically Ill Children: The PODIUM Consensus Conference.. <i>Pediatrics</i> , <b>2022</b> , 149, S32-S38	7.4	1
97	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
96	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
95	Severe Acute Respiratory Syndrome-Associated Coronavirus 2 Infection and Organ Dysfunction in the ICU: Opportunities for Translational Research <b>2021</b> , 3, e0374		12
94	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
93	SARS-CoV-2 Spike RBD-Induced Inflammatory Response by CD14+ Monocytes Causes Endothelial Barrier Dysfunction. <i>FASEB Journal</i> , <b>2021</b> , 35,	0.9	78
92	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
91	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
90	Dendrimer-tesaglitazar conjugate induces a phenotype shift of microglia and enhances $\beta$ amyloid phagocytosis. <i>Nanoscale</i> , <b>2021</b> , 13, 939-952	7.7	7
89	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
88	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
87	Pediatric Traumatic Brain Injury Causes Long-Term Deficits in Adult Hippocampal Neurogenesis and Cognition. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 1656-1667	5.4	9
86	Transient neonatal sleep fragmentation results in long-term neuroinflammation and cognitive impairment in a rabbit model. <i>Experimental Neurology</i> , <b>2020</b> , 327, 113212	5.7	5
85	Dense hydroxyl polyethylene glycol dendrimer targets activated glia in multiple CNS disorders. <i>Science Advances</i> , <b>2020</b> , 6, eaay8514	14.3	29
84	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

83	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
82	Glutamine Antagonist JHU-083 Normalizes Aberrant Hippocampal Glutaminase Activity and Improves Cognition in APOE4 Mice. <i>Journal of Alzheimers Disease</i> , <b>2020</b> , 77, 437-447	4.3	7
81	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
80	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
79	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
78	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
77	Microglial Metabolism After Pediatric Traumatic Brain Injury - Overlooked Bystanders or Active Participants?. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 626999	4.1	1
76	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
75	Administration of a 20-Hydroxyeicosatetraenoic Acid Synthesis Inhibitor Improves Outcome in a Rat Model of Pediatric Traumatic Brain Injury. <i>Developmental Neuroscience</i> , <b>2019</b> , 41, 166-176	2.2	6
74	Neuroimmune responses in the developing brain following traumatic brain injury. <i>Experimental Neurology</i> , <b>2019</b> , 320, 112957	5.7	25
73	Neuronanotechnology for brain regeneration. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 148, 3-18	18.5	10
72	Cerebellar injury and impaired function in a rabbit model of maternal inflammation induced neonatal brain injury. <i>Neurobiology of Learning and Memory</i> , <b>2019</b> , 165, 106901	3.1	6
71	Advanced nanotherapies to promote neuroregeneration in the injured newborn brain. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 148, 19-37	18.5	4
70	Altered trajectories of neurodevelopment and behavior in mouse models of Rett syndrome. <i>Neurobiology of Learning and Memory</i> , <b>2019</b> , 165, 106962	3.1	6
69	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
68	Trajectory of inflammatory and microglial activation markers in the postnatal rabbit brain following intrauterine endotoxin exposure. <i>Neurobiology of Disease</i> , <b>2018</b> , 111, 153-162	7.5	26
67	Dendrimer-N-acetyl-L-cysteine modulates monophagocytic response in adrenoleukodystrophy. <i>Annals of Neurology</i> , <b>2018</b> , 84, 452-462	9.4	17
66	Early Detection of Hypothermic Neuroprotection Using T2-Weighted Magnetic Resonance Imaging in a Mouse Model of Hypoxic Ischemic Encephalopathy. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 304	4.1	8

65	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
64	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
63	Traumatic Injury Leads to Inflammation and Altered Tryptophan Metabolism in the Juvenile Rabbit Brain. <i>Journal of Neurotrauma</i> , <b>2018</b> ,	5.4	18
62	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
61	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
60	Noninvasive C-rifampin positron emission tomography reveals drug biodistribution in tuberculous meningitis. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	46
59	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
58	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
57	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
56	Maternal Inflammation Results in Altered Tryptophan Metabolism in Rabbit Placenta and Fetal Brain. <i>Developmental Neuroscience</i> , <b>2017</b> , 39, 399-412	2.2	34
55	Activated Microglia Targeting Dendrimer-Minocycline Conjugate as Therapeutics for Neuroinflammation. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 2874-2886	6.3	49
54	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
53	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
52	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
51	Microglial migration and interactions with dendrimer nanoparticles are altered in the presence of neuroinflammation. <i>Journal of Neuroinflammation</i> , <b>2016</b> , 13, 65	10.1	45
50	Maternal inflammation leads to impaired glutamate homeostasis and up-regulation of glutamate carboxypeptidase II in activated microglia in the fetal/newborn rabbit brain. <i>Neurobiology of Disease</i> , <b>2016</b> , 94, 116-28	7.5	41
49	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
48	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

47	Microglia activation in a pediatric rabbit model of tuberculous meningitis. <i>DMM Disease Models and Mechanisms</i> , <b>2016</b> , 9, 1497-1506	4.1	32
46	Nanoscale effects in dendrimer-mediated targeting of neuroinflammation. <i>Biomaterials</i> , <b>2016</b> , 101, 96-107	3.6	80
45	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
44	A New Rabbit Model of Pediatric Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2015</b> , 32, 1369-79	5.4	33
43	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
42	Neuroinflammation and neuroimmune dysregulation after acute hypoxic-ischemic injury of developing brain. <i>Frontiers in Pediatrics</i> , <b>2014</b> , 2, 144	3.4	69
41	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
40	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
39	Oropharyngeal dermoid cyst in an infant with intermittent airway obstruction. A case report. <i>Neuroradiology Journal</i> , <b>2014</b> , 27, 627-31	2	3
38	Concurrent quantification of tryptophan and its major metabolites. <i>Analytical Biochemistry</i> , <b>2013</b> , 443, 222-31	3.1	36
37	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
36	Maternal endotoxin exposure results in abnormal neuronal architecture in the newborn rabbit. <i>Developmental Neuroscience</i> , <b>2013</b> , 35, 396-405	2.2	28
35	Nanomedicine in cerebral palsy. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8, 4183-95	7.3	17
34	Models of fetal brain injury, intrauterine inflammation, and preterm birth. <i>American Journal of Reproductive Immunology</i> , <b>2012</b> , 67, 287-94	3.8	163
33	Augmented annotation and orthologue analysis for <i>Oryctolagus cuniculus</i> : Better Bunny. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 84	3.6	18
32	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
31	Decreased cortical serotonin in neonatal rabbits exposed to endotoxin in utero. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 738-49	7.3	42
30	Injectable PAMAM dendrimer-PEG hydrogels for the treatment of genital infections: formulation and in vitro and in vivo evaluation. <i>Molecular Pharmaceutics</i> , <b>2011</b> , 8, 1209-23	5.6	76

29	Magnitude of [(11)C]PK11195 binding is related to severity of motor deficits in a rabbit model of cerebral palsy induced by intrauterine endotoxin exposure. <i>Developmental Neuroscience</i> , <b>2011</b> , 33, 231-40 <sup>2</sup>	37
28	Amino acid-functionalized dendrimers with heterobifunctional chemoselective peripheral groups for drug delivery applications. <i>Biomacromolecules</i> , <b>2010</b> , 11, 1544-63	6.9 80
27	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
26	Inhibition of bacterial growth and intramniotic infection in a guinea pig model of chorioamnionitis using PAMAM dendrimers. <i>International Journal of Pharmaceutics</i> , <b>2010</b> , 395, 298-308	6.5 121
25	Transport and biodistribution of dendrimers across human fetal membranes: implications for intravaginal administration of dendrimer-drug conjugates. <i>Biomaterials</i> , <b>2010</b> , 31, 5007-21	15.6 50
24	Applications of positron emission tomography in the newborn nursery. <i>Seminars in Perinatology</i> , <b>2010</b> , 34, 39-45	3.3 23
23	Stimuli-responsive star poly(ethylene glycol) drug conjugates for improved intracellular delivery of the drug in neuroinflammation. <i>Journal of Controlled Release</i> , <b>2010</b> , 142, 447-56	11.7 46
22	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
21	Intrauterine endotoxin administration leads to white matter diffusivity changes in newborn rabbits. <i>Journal of Child Neurology</i> , <b>2009</b> , 24, 1179-89	2.5 37
20	Positron emission tomography imaging of neuroinflammation. <i>Journal of Child Neurology</i> , <b>2009</b> , 24, 1190-9	2.9 28
19	Poly(amidoamine) dendrimer-drug conjugates with disulfide linkages for intracellular drug delivery. <i>Biomaterials</i> , <b>2009</b> , 30, 2112-21	15.6 182
18	Anti-inflammatory and anti-oxidant activity of anionic dendrimer-N-acetyl cysteine conjugates in activated microglial cells. <i>International Journal of Pharmaceutics</i> , <b>2009</b> , 377, 159-68	6.5 67
17	Effects of branching architecture and linker on the activity of hyperbranched polymer-drug conjugates. <i>Bioconjugate Chemistry</i> , <b>2009</b> , 20, 842-6	6.3 42
16	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
15	The effect of surface functionality on cellular trafficking of dendrimers. <i>Biomaterials</i> , <b>2008</b> , 29, 3469-76	15.6 317
14	Kearns-Sayre syndrome presenting as complete heart block. <i>Pediatric Cardiology</i> , <b>2008</b> , 29, 659-62	2.1 20
13	Intrauterine administration of endotoxin leads to motor deficits in a rabbit model: a link between prenatal infection and cerebral palsy. <i>American Journal of Obstetrics and Gynecology</i> , <b>2008</b> , 199, 651.e1-7 <sup>6.4</sup>	85
12	Synthesis, characterization, and in vitro activity of dendrimer-streptokinase conjugates. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 791-9	6.3 41

11	Microglial activation in perinatal rabbit brain induced by intrauterine inflammation: detection with <sup>11</sup> C-(R)-PK11195 and small-animal PET. <i>Journal of Nuclear Medicine</i> , <b>2007</b> , 48, 946-54	8.9	75
10	Preparation, cellular transport, and activity of polyamidoamine-based dendritic nanodevices with a high drug payload. <i>Biomaterials</i> , <b>2006</b> , 27, 660-9	15.6	151
9	Synthesis, cellular transport, and activity of polyamidoamine dendrimer-methylprednisolone conjugates. <i>Bioconjugate Chemistry</i> , <b>2005</b> , 16, 330-7	6.3	130
8	Hyperbranched polymer-drug conjugates with high drug payload for enhanced cellular delivery. <i>Pharmaceutical Research</i> , <b>2004</b> , 21, 2185-95	4.5	72
7	Dynamics of cellular entry and drug delivery by dendritic polymers into human lung epithelial carcinoma cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2004</b> , 15, 311-30	3.5	88
6	Drug complexation, in vitro release and cellular entry of dendrimers and hyperbranched polymers. <i>International Journal of Pharmaceutics</i> , <b>2003</b> , 259, 143-60	6.5	346
5	Bleeding and coagulation changes during spinal fusion surgery: a comparison of neuromuscular and idiopathic scoliosis patients. <i>Pediatric Critical Care Medicine</i> , <b>2002</b> , 3, 364-9	3	69
4	Predictors of red cell transfusion in children and adolescents undergoing spinal fusion surgery. <i>Spine</i> , <b>2002</b> , 27, 2137-42	3.3	104
3	Diffuse crescentic glomerulonephritis in bacterial endocarditis. <i>Pediatric Nephrology</i> , <b>2001</b> , 16, 423-8	3.2	31
2	Dendrimers and Hyperbranched Polymers for Drug Delivery		105-129 3
1	Cellular Interactions of Nano Drug Delivery Systems		113-136 2