

Sujatha Kannan

List of Publications by Citations

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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 | Drug complexation, in vitro release and cellular entry of dendrimers and hyperbranched polymers. <i>International Journal of Pharmaceutics</i> , 2003 , 259, 143-60 | 6.5 | 346 |
| 99 | The effect of surface functionality on cellular trafficking of dendrimers. <i>Biomaterials</i> , 2008 , 29, 3469-76 | 15.6 | 317 |
| 98 | Dendrimer-based postnatal therapy for neuroinflammation and cerebral palsy in a rabbit model. <i>Science Translational Medicine</i> , 2012 , 4, 130ra46 | 17.5 | 268 |
| 97 | Poly(amidoamine) dendrimer-drug conjugates with disulfide linkages for intracellular drug delivery. <i>Biomaterials</i> , 2009 , 30, 2112-21 | 15.6 | 182 |
| 96 | Models of fetal brain injury, intrauterine inflammation, and preterm birth. <i>American Journal of Reproductive Immunology</i> , 2012 , 67, 287-94 | 3.8 | 163 |
| 95 | Preparation, cellular transport, and activity of polyamidoamine-based dendritic nanodevices with a high drug payload. <i>Biomaterials</i> , 2006 , 27, 660-9 | 15.6 | 151 |
| 94 | Dendrimer-drug conjugates for tailored intracellular drug release based on glutathione levels. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2446-55 | 6.3 | 142 |
| 93 | Drug release characteristics of PAMAM dendrimer-drug conjugates with different linkers. <i>International Journal of Pharmaceutics</i> , 2010 , 384, 189-94 | 6.5 | 134 |
| 92 | Synthesis, cellular transport, and activity of polyamidoamine dendrimer-methylprednisolone conjugates. <i>Bioconjugate Chemistry</i> , 2005 , 16, 330-7 | 6.3 | 130 |
| 91 | Inhibition of bacterial growth and intramniotic infection in a guinea pig model of chorioamnionitis using PAMAM dendrimers. <i>International Journal of Pharmaceutics</i> , 2010 , 395, 298-308 | 6.5 | 121 |
| 90 | Predictors of red cell transfusion in children and adolescents undergoing spinal fusion surgery. <i>Spine</i> , 2002 , 27, 2137-42 | 3.3 | 104 |
| 89 | Dendrimer brain uptake and targeted therapy for brain injury in a large animal model of hypothermic circulatory arrest. <i>ACS Nano</i> , 2014 , 8, 2134-47 | 16.7 | 101 |
| 88 | Intrinsic targeting of inflammatory cells in the brain by polyamidoamine dendrimers upon subarachnoid administration. <i>Nanomedicine</i> , 2010 , 5, 1317-29 | 5.6 | 88 |
| 87 | Dynamics of cellular entry and drug delivery by dendritic polymers into human lung epithelial carcinoma cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 311-30 | 3.5 | 88 |
| 86 | Biodistribution of fluorescently labeled PAMAM dendrimers in neonatal rabbits: effect of neuroinflammation. <i>Molecular Pharmaceutics</i> , 2013 , 10, 4560-71 | 5.6 | 87 |
| 85 | 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> , 2008 , 199, 651.e1-7 | 6.4 | 85 |
| 84 | Amino acid-functionalized dendrimers with heterobifunctional chemoselective peripheral groups for drug delivery applications. <i>Biomacromolecules</i> , 2010 , 11, 1544-63 | 6.9 | 80 |

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|----|--|------|----|
| 83 | Nanoscale effects in dendrimer-mediated targeting of neuroinflammation. <i>Biomaterials</i> , 2016 , 101, 96-103.6 | 10.6 | 80 |
| 82 | SARS-CoV-2 Spike RBD-Induced Inflammatory Response by CD14+ Monocytes Causes Endothelial Barrier Dysfunction. <i>FASEB Journal</i> , 2021 , 35, | 0.9 | 78 |
| 81 | Injectable PAMAM dendrimer-PEG hydrogels for the treatment of genital infections: formulation and in vitro and in vivo evaluation. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1209-23 | 5.6 | 76 |
| 80 | Microglial activation in perinatal rabbit brain induced by intrauterine inflammation: detection with ¹¹ C-(R)-PK11195 and small-animal PET. <i>Journal of Nuclear Medicine</i> , 2007 , 48, 946-54 | 8.9 | 75 |
| 79 | Systemic dendrimer-drug treatment of ischemia-induced neonatal white matter injury. <i>Journal of Controlled Release</i> , 2015 , 214, 112-20 | 11.7 | 72 |
| 78 | Hyperbranched polymer-drug conjugates with high drug payload for enhanced cellular delivery. <i>Pharmaceutical Research</i> , 2004 , 21, 2185-95 | 4.5 | 72 |
| 77 | Neuroinflammation and neuroimmune dysregulation after acute hypoxic-ischemic injury of developing brain. <i>Frontiers in Pediatrics</i> , 2014 , 2, 144 | 3.4 | 69 |
| 76 | Bleeding and coagulation changes during spinal fusion surgery: a comparison of neuromuscular and idiopathic scoliosis patients. <i>Pediatric Critical Care Medicine</i> , 2002 , 3, 364-9 | 3 | 69 |
| 75 | Targeting Mitochondrial Dysfunction and Oxidative Stress in Activated Microglia using Dendrimer-Based Therapeutics. <i>Theranostics</i> , 2018 , 8, 5529-5547 | 12.1 | 69 |
| 74 | Anti-inflammatory and anti-oxidant activity of anionic dendrimer-N-acetyl cysteine conjugates in activated microglial cells. <i>International Journal of Pharmaceutics</i> , 2009 , 377, 159-68 | 6.5 | 67 |
| 73 | Cognitive impairments induced by necrotizing enterocolitis can be prevented by inhibiting microglial activation in mouse brain. <i>Science Translational Medicine</i> , 2018 , 10, | 17.5 | 54 |
| 72 | Generation-6 hydroxyl PAMAM dendrimers improve CNS penetration from intravenous administration in a large animal brain injury model. <i>Journal of Controlled Release</i> , 2017 , 249, 173-182 | 11.7 | 50 |
| 71 | Targeting specific cells in the brain with nanomedicines for CNS therapies. <i>Journal of Controlled Release</i> , 2016 , 240, 212-226 | 11.7 | 50 |
| 70 | 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> , 2018 , 283, 175-189 | 11.7 | 50 |
| 69 | Maternal dendrimer-based therapy for inflammation-induced preterm birth and perinatal brain injury. <i>Scientific Reports</i> , 2017 , 7, 6106 | 4.9 | 50 |
| 68 | Transport and biodistribution of dendrimers across human fetal membranes: implications for intravaginal administration of dendrimer-drug conjugates. <i>Biomaterials</i> , 2010 , 31, 5007-21 | 15.6 | 50 |
| 67 | Activated Microglia Targeting Dendrimer-Minocycline Conjugate as Therapeutics for Neuroinflammation. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2874-2886 | 6.3 | 49 |
| 66 | Dendrimer-mediated delivery of N-acetyl cysteine to microglia in a mouse model of Rett syndrome. <i>Journal of Neuroinflammation</i> , 2017 , 14, 252 | 10.1 | 49 |

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|----|--|------|----|
| 65 | Stimuli-responsive star poly(ethylene glycol) drug conjugates for improved intracellular delivery of the drug in neuroinflammation. <i>Journal of Controlled Release</i> , 2010 , 142, 447-56 | 11.7 | 46 |
| 64 | Noninvasive C-rifampin positron emission tomography reveals drug biodistribution in tuberculous meningitis. <i>Science Translational Medicine</i> , 2018 , 10, | 17.5 | 46 |
| 63 | Microglial migration and interactions with dendrimer nanoparticles are altered in the presence of neuroinflammation. <i>Journal of Neuroinflammation</i> , 2016 , 13, 65 | 10.1 | 45 |
| 62 | Decreased cortical serotonin in neonatal rabbits exposed to endotoxin in utero. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 738-49 | 7.3 | 42 |
| 61 | Effects of branching architecture and linker on the activity of hyperbranched polymer-drug conjugates. <i>Bioconjugate Chemistry</i> , 2009 , 20, 842-6 | 6.3 | 42 |
| 60 | Dendrimer mediated targeted delivery of sinomenine for the treatment of acute neuroinflammation in traumatic brain injury. <i>Journal of Controlled Release</i> , 2020 , 323, 361-375 | 11.7 | 41 |
| 59 | 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> , 2016 , 94, 116-28 | 7.5 | 41 |
| 58 | Synthesis, characterization, and in vitro activity of dendrimer-streptokinase conjugates. <i>Bioconjugate Chemistry</i> , 2007 , 18, 791-9 | 6.3 | 41 |
| 57 | 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> , 2017 , 13, 2359-2369 | 6 | 37 |
| 56 | Intrauterine endotoxin administration leads to white matter diffusivity changes in newborn rabbits. <i>Journal of Child Neurology</i> , 2009 , 24, 1179-89 | 2.5 | 37 |
| 55 | 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> , 2011 , 33, 231-40 ² | 2.2 | 37 |
| 54 | Concurrent quantification of tryptophan and its major metabolites. <i>Analytical Biochemistry</i> , 2013 , 443, 222-31 | 3.1 | 36 |
| 53 | Maternal Inflammation Results in Altered Tryptophan Metabolism in Rabbit Placenta and Fetal Brain. <i>Developmental Neuroscience</i> , 2017 , 39, 399-412 | 2.2 | 34 |
| 52 | A New Rabbit Model of Pediatric Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2015 , 32, 1369-79 | 5.4 | 33 |
| 51 | Microglia activation in a pediatric rabbit model of tuberculous meningitis. <i>DMM Disease Models and Mechanisms</i> , 2016 , 9, 1497-1506 | 4.1 | 32 |
| 50 | Diffuse crescentic glomerulonephritis in bacterial endocarditis. <i>Pediatric Nephrology</i> , 2001 , 16, 423-8 | 3.2 | 31 |
| 49 | Scalable synthesis and validation of PAMAM dendrimer--acetyl cysteine conjugate for potential translation. <i>Bioengineering and Translational Medicine</i> , 2018 , 3, 87-101 | 14.8 | 30 |
| 48 | Dense hydroxyl polyethylene glycol dendrimer targets activated glia in multiple CNS disorders. <i>Science Advances</i> , 2020 , 6, eaay8514 | 14.3 | 29 |

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| 47 | Maternal endotoxin exposure results in abnormal neuronal architecture in the newborn rabbit. <i>Developmental Neuroscience</i> , 2013 , 35, 396-405 | 2.2 | 28 |
| 46 | Positron emission tomography imaging of neuroinflammation. <i>Journal of Child Neurology</i> , 2009 , 24, 1190-9 | 2.9 | 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> , 2014 , 10, 1343-51 | 6 | 27 |
| 44 | Trajectory of inflammatory and microglial activation markers in the postnatal rabbit brain following intrauterine endotoxin exposure. <i>Neurobiology of Disease</i> , 2018 , 111, 153-162 | 7.5 | 26 |
| 43 | Surface functionality affects the biodistribution and microglia-targeting of intra-amniotically delivered dendrimers. <i>Journal of Controlled Release</i> , 2016 , 237, 61-70 | 11.7 | 26 |
| 42 | Neuroimmune responses in the developing brain following traumatic brain injury. <i>Experimental Neurology</i> , 2019 , 320, 112957 | 5.7 | 25 |
| 41 | Applications of positron emission tomography in the newborn nursery. <i>Seminars in Perinatology</i> , 2010 , 34, 39-45 | 3.3 | 23 |
| 40 | Dendrimer size effects on the selective brain tumor targeting in orthotopic tumor models upon systemic administration. <i>Bioengineering and Translational Medicine</i> , 2020 , 5, e10160 | 14.8 | 21 |
| 39 | Kearns-Sayre syndrome presenting as complete heart block. <i>Pediatric Cardiology</i> , 2008 , 29, 659-62 | 2.1 | 20 |
| 38 | Traumatic Injury Leads to Inflammation and Altered Tryptophan Metabolism in the Juvenile Rabbit Brain. <i>Journal of Neurotrauma</i> , 2018 , | 5.4 | 18 |
| 37 | Augmented annotation and orthologue analysis for <i>Oryctolagus cuniculus</i> : Better Bunny. <i>BMC Bioinformatics</i> , 2012 , 13, 84 | 3.6 | 18 |
| 36 | Preferential and Increased Uptake of Hydroxyl-Terminated PAMAM Dendrimers by Activated Microglia in Rabbit Brain Mixed Glial Culture. <i>Molecules</i> , 2018 , 23, | 4.8 | 18 |
| 35 | Dendrimer-N-acetyl-L-cysteine modulates monophagocytic response in adrenoleukodystrophy. <i>Annals of Neurology</i> , 2018 , 84, 452-462 | 9.4 | 17 |
| 34 | Nanomedicine in cerebral palsy. <i>International Journal of Nanomedicine</i> , 2013 , 8, 4183-95 | 7.3 | 17 |
| 33 | Dendrimer-Mediated Targeted Delivery of Rapamycin to Tumor-Associated Macrophages Improves Systemic Treatment of Glioblastoma. <i>Biomacromolecules</i> , 2020 , 21, 5148-5161 | 6.9 | 14 |
| 32 | Severe Acute Respiratory Syndrome-Associated Coronavirus 2 Infection and Organ Dysfunction in the ICU: Opportunities for Translational Research 2021 , 3, e0374 | | 12 |
| 31 | Quantitative assessment of surface functionality effects on microglial uptake and retention of PAMAM dendrimers. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1 | 2.3 | 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> , 2016 , 102, 743-750 | 2.7 | 11 |

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| 29 | Neuronanotechnology for brain regeneration. <i>Advanced Drug Delivery Reviews</i> , 2019 , 148, 3-18 | 18.5 | 10 |
| 28 | Targeting Mitochondria in Tumor-Associated Macrophages using a Dendrimer-Conjugated TSPO Ligand that Stimulates Antitumor Signaling in Glioblastoma. <i>Biomacromolecules</i> , 2020 , 21, 3909-3922 | 6.9 | 10 |
| 27 | Selective Localization of a Novel Dendrimer Nanoparticle in Myocardial Ischemia-Reperfusion Injury. <i>Annals of Thoracic Surgery</i> , 2017 , 104, 891-898 | 2.7 | 9 |
| 26 | Pediatric Traumatic Brain Injury Causes Long-Term Deficits in Adult Hippocampal Neurogenesis and Cognition. <i>Journal of Neurotrauma</i> , 2020 , 37, 1656-1667 | 5.4 | 9 |
| 25 | Glycosylation of PAMAM dendrimers significantly improves tumor macrophage targeting and specificity in glioblastoma. <i>Journal of Controlled Release</i> , 2021 , 337, 179-192 | 11.7 | 9 |
| 24 | Early Detection of Hypothermic Neuroprotection Using T2-Weighted Magnetic Resonance Imaging in a Mouse Model of Hypoxic Ischemic Encephalopathy. <i>Frontiers in Neurology</i> , 2018 , 9, 304 | 4.1 | 8 |
| 23 | Dendrimer-conjugated glutaminase inhibitor selectively targets microglial glutaminase in a mouse model of Rett syndrome. <i>Theranostics</i> , 2020 , 10, 5736-5748 | 12.1 | 8 |
| 22 | Glutamine Antagonist JHU-083 Normalizes Aberrant Hippocampal Glutaminase Activity and Improves Cognition in APOE4 Mice. <i>Journal of Alzheimer's Disease</i> , 2020 , 77, 437-447 | 4.3 | 7 |
| 21 | Dendrimer-tesaglitazar conjugate induces a phenotype shift of microglia and enhances β -Amyloid phagocytosis. <i>Nanoscale</i> , 2021 , 13, 939-952 | 7.7 | 7 |
| 20 | Administration of a 20-Hydroxyeicosatetraenoic Acid Synthesis Inhibitor Improves Outcome in a Rat Model of Pediatric Traumatic Brain Injury. <i>Developmental Neuroscience</i> , 2019 , 41, 166-176 | 2.2 | 6 |
| 19 | Cerebellar injury and impaired function in a rabbit model of maternal inflammation induced neonatal brain injury. <i>Neurobiology of Learning and Memory</i> , 2019 , 165, 106901 | 3.1 | 6 |
| 18 | Altered trajectories of neurodevelopment and behavior in mouse models of Rett syndrome. <i>Neurobiology of Learning and Memory</i> , 2019 , 165, 106962 | 3.1 | 6 |
| 17 | Transient neonatal sleep fragmentation results in long-term neuroinflammation and cognitive impairment in a rabbit model. <i>Experimental Neurology</i> , 2020 , 327, 113212 | 5.7 | 5 |
| 16 | Advanced nanotherapies to promote neuroregeneration in the injured newborn brain. <i>Advanced Drug Delivery Reviews</i> , 2019 , 148, 19-37 | 18.5 | 4 |
| 15 | Systemic dendrimer-drug nanomedicines for long-term treatment of mild-moderate cerebral palsy in a rabbit model. <i>Journal of Neuroinflammation</i> , 2020 , 17, 319 | 10.1 | 4 |
| 14 | Targeted systemic dendrimer delivery of CSF-1R inhibitor to tumor-associated macrophages improves outcomes in orthotopic glioblastoma. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10205 | 14.8 | 4 |
| 13 | Oropharyngeal dermoid cyst in an infant with intermittent airway obstruction. A case report. <i>Neuroradiology Journal</i> , 2014 , 27, 627-31 | 2 | 3 |
| 12 | Dendrimers and Hyperbranched Polymers for Drug Delivery | 105-129 | 3 |

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| 11 | Dendrimer-2PMPA selectively blocks upregulated microglial GCPII activity and improves cognition in a mouse model of multiple sclerosis.. <i>Nanotheranostics</i> , 2022 , 6, 126-142 | 5.6 | 3 |
| 10 | Cellular Interactions of Nano Drug Delivery Systems113-136 | | 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> , 2020 , 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> , 2022 , 1 | 6.4 | 1 |
| 7 | Acute Neurologic Dysfunction in Critically Ill Children: The PODIUM Consensus Conference.. <i>Pediatrics</i> , 2022 , 149, S32-S38 | 7.4 | 1 |
| 6 | NMDA Receptor Antagonism for Neuroprotection in a Canine Model of Hypothermic Circulatory Arrest. <i>Journal of Surgical Research</i> , 2021 , 260, 177-189 | 2.5 | 1 |
| 5 | Rationally Designed Galactose Dendrimer for Hepatocyte-Specific Targeting and Intracellular Drug Delivery for the Treatment of Liver Disorders. <i>Biomacromolecules</i> , 2021 , 22, 3574-3589 | 6.9 | 1 |
| 4 | Microglial Metabolism After Pediatric Traumatic Brain Injury - Overlooked Bystanders or Active Participants?. <i>Frontiers in Neurology</i> , 2020 , 11, 626999 | 4.1 | 1 |
| 3 | Targeted drug delivery for maternal and perinatal health: Challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021 , 177, 113950 | 18.5 | 1 |
| 2 | Dendrimer-Based N-Acetyl Cysteine Maternal Therapy Ameliorates Placental Inflammation Maintenance of M1/M2 Macrophage Recruitment.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 819593 | 5.8 | 0 |
| 1 | Systemic administration of dendrimer N-acetyl cysteine improves outcomes and survival following cardiac arrest.. <i>Bioengineering and Translational Medicine</i> , 2022 , 7, e10259 | 14.8 | 0 |