S Thameem Dheen

List of Publications by Year
in descending order

113 papers	6,344 citations	76196 40 h-index	71532 76 g-index
114 all docs	114 docs citations	114 times ranked	9602 citing authors

#	Article	IF	Citations
1	Microglial Activation and its Implications in the Brain Diseases. Current Medicinal Chemistry, 2007, 14, 1189-1197.	1.2	854
2	Microglia-mediated neuroinflammation in neurodegenerative diseases. Seminars in Cell and Developmental Biology, 2019, 94, 112-120.	2.3	472
3	Interactions of Chemokines and Chemokine Receptors Mediate the Migration of Mesenchymal Stem Cells to the Impaired Site in the Brain After Hypoglossal Nerve Injury. Stem Cells, 2004, 22, 415-427.	1.4	402
4	Evidence that NF-ÎºB and MAPK Signaling Promotes NLRP Inflammasome Activation in Neurons Following Ischemic Stroke. Molecular Neurobiology, 2018, 55, 1082-1096.	1.9	245
5	Toll-like receptor 4 mediates microglial activation and production of inflammatory mediators in neonatal rat brain following hypoxia: role of TLR4 in hypoxic microglia. Journal of Neuroinflammation, 2013, 10, 23.	3.1	236
6	Retinoic acid inhibits expression of TNF-? and iNOS in activated rat microglia. Glia, 2005, 50, 21-31.	2.5	185
7	HDAC Inhibitor Sodium Butyrate-Mediated Epigenetic Regulation Enhances Neuroprotective Function of Microglia During Ischemic Stroke. Molecular Neurobiology, 2017, 54, 6391-6411.	1.9	169
8	Sphingosine kinase 1 regulates the expression of proinflammatory cytokines and nitric oxide in activated microglia. Neuroscience, 2010, 166, 132-144.	1.1	141
9	Evidence that NLRC4 inflammasome mediates apoptotic and pyroptotic microglial death following ischemic stroke. Brain, Behavior, and Immunity, 2019, 75, 34-47.	2.0	129
10	Dexamethasone suppresses monocyte chemoattractant protein-1 production via mitogen activated protein kinase phosphatase-1 dependent inhibition of Jun N-terminal kinase and p38 mitogen-activated protein kinase in activated rat microglia. Journal of Neurochemistry, 2007, 102, 667-678.	2.1	112
11	Downregulation of miR-124 in MPTP-treated mouse model of Parkinsonâ€™s disease and MPP iodide-treated MN9D cells modulates the expression of the calpain/cdk5 pathway proteins. Neuroscience, 2014, 272, 167-179.	1.1	109
12	Expression of chemokine receptors CXCR4, CCR2, CCR5 and CX3CR1 in neural progenitor cells isolated from the subventricular zone of the adult rat brain. Neuroscience Letters, 2004, 355, 236-240.	1.0	107
13	Sirtuin 3 regulates Foxo3a-mediated antioxidant pathway in microglia. Neuroscience, 2015, 311, 398-414.	1.1	107
14	Maternal diabetes induces congenital heart defects in mice by altering the expression of genes involved in cardiovascular development. Cardiovascular Diabetology, 2007, 6, 34.	2.7	101
15	Notch-1 Signaling Regulates Microglia Activation via NF-ÎºB Pathway after Hypoxic Exposure In Vivo and In Vitro. PLoS ONE, 2013, 8, e78439.	1.1	99
16	Dexamethasone inhibits the Nox-dependent ROS production via suppression of MKP-1-dependent MAPK pathways in activated microglia. BMC Neuroscience, 2011, 12, 49.	0.8	91
17	Transcriptome analysis of amoeboid and ramified microglia isolated from the corpus callosum of rat brain. BMC Neuroscience, 2012, 13, 64.	0.8	90
18	Maternal Factors that Induce Epigenetic Changes Contribute to Neurological Disorders in Offspring. Genes, 2017, 8, 150.	1.0	90

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19	MicroRNAs: Key Players in Microglia and Astrocyte Mediated Inflammation in CNS Pathologies. Current Medicinal Chemistry, 2016, 23, 3528-3546.	1.2	85
20	Nanoparticle-Based Therapeutic Approach for Diabetic Wound Healing. Nanomaterials, 2020, 10, 1234.	1.9	83
21	The induction of epigenetic regulation of PROS1 gene in lung fibroblasts by gold nanoparticles and implications for potential lung injury. Biomaterials, 2011, 32, 7609-7615.	5.7	81
22	High glucose alters the expression of genes involved in proliferation and cell-fate specification of embryonic neural stem cells. Diabetologia, 2006, 49, 1027-1038.	2.9	80
23	Impaired glucose homeostasis in insulin-like growth factor binding protein-1 transgenic mice.. Journal of Clinical Investigation, 1996, 98, 1818-1825.	3.9	79
24	Domoic acid-induced neuronal damage in the rat hippocampus: Changes in apoptosis related genes (Bcl-2, Bax, caspase-3) and microglial response. Journal of Neuroscience Research, 2001, 66, 177-190.	1.3	71
25	Expression of Notchâ€1 receptor and its ligands Jaggedâ€1 and Deltaâ€1 in amoeboid microglia in postnatal rat brain and murine BVâ€2 cells. Glia, 2008, 56, 1224-1237.	2.5	68
26	Recent Studies on Neural Tube Defects in Embryos of Diabetic Pregnancy: An Overview. Current Medicinal Chemistry, 2009, 16, 2345-2354.	1.2	62
27	Sphingosine kinase 2 and sphingosine-1-phosphate promotes mitochondrial function in dopaminergic neurons of mouse model of Parkinsonâ€™s disease and in MPP+-treated MN9D cells in vitro. Neuroscience, 2015, 290, 636-648.	1.1	62
28	Identification of RANKL in Osteolytic Lesions of the Facial Skeleton. Journal of Dental Research, 2004, 83, 349-353.	2.5	58
29	microRNAâ€200b modulates microgliaâ€mediated neuroinflammation via the cJun/MAPK pathway. Journal of Neurochemistry, 2014, 130, 388-401.	2.1	58
30	Epigenetic mechanisms in nanomaterial-induced toxicity. Epigenomics, 2015, 7, 395-411.	1.0	57
31	Nuclear factorâ€ÎºB/p65 responds to changes in the Notch signaling pathway in murine BVâ€2 cells and in amoeboid microglia in postnatal rats treated with the Î³â€secretase complex blocker DAPT. Journal of Neuroscience Research, 2010, 88, 2701-2714.	1.3	56
32	Zinc supplementation prevents cardiomyocyte apoptosis and congenital heart defects in embryos of diabetic mice. Free Radical Biology and Medicine, 2012, 53, 1595-1606.	1.3	56
33	Insulin-like growth factor I and II expression and modulation in amoeboid microglial cells by lipopolysaccharide and retinoic acid. Neuroscience, 2006, 138, 1233-1244.	1.1	49
34	Role of dietary phenols in mitigating microglia-mediated neuroinflammation. NeuroMolecular Medicine, 2016, 18, 453-464.	1.8	49
35	Recent progress in therapeutic strategies for microglia-mediated neuroinflammation in neuropathologies. Expert Opinion on Therapeutic Targets, 2018, 22, 765-781.	1.5	47
36	Global gene expression analysis of cranial neural tubes in embryos of diabetic mice. Journal of Neuroscience Research, 2008, 86, 3481-3493.	1.3	46

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37	Epigenetic regulation of microglial phosphatidylinositol 3â€kinase pathway involved in longâ€term potentiation and synaptic plasticity in rats. Glia, 2020, 68, 656-669.	2.5	46
38	Inhibition of LINE-1 retrotransposon-encoded reverse transcriptase modulates the expression of cell differentiation genes in breast cancer cells. Breast Cancer Research and Treatment, 2014, 143, 239-253.	1.1	44
39	Production of proinflammatory mediators in activated microglia is synergistically regulated by Notch-1, glycogen synthase kinase (GSK-3Î²) and NF-Î°B/p65 signalling. PLoS ONE, 2017, 12, e0186764.	1.1	44
40	Fabrication of TiÂ+ÂMg composites by three-dimensional printing of porous Ti and subsequent pressureless infiltration of biodegradable Mg. Materials Science and Engineering C, 2020, 108, 110478.	3.8	44
41	From blood to brain: amoeboid microglial cell, a nascent macrophage and its functions in developing brain. Acta Pharmacologica Sinica, 2007, 28, 1087-1096.	2.8	43
42	Functions and applications of metallic and metallic oxide nanoparticles in orthopedic implants and scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 160-179.	1.6	43
43	NG2, a member of chondroitin sulfate proteoglycans family mediates the inflammatory response of activated microglia. Neuroscience, 2010, 165, 386-394.	1.1	41
44	MicroRNAâ€134â€5p inhibition rescues longâ€term plasticity and synaptic tagging/capture in an Aβ(1â€“42)â€induced model of Alzheimerâ€™s disease. Aging Cell, 2020, 19, e13046.	3.0	41
45	Analysis of Epigenetic Factors in Mouse Embryonic Neural Stem Cells Exposed to Hyperglycemia. PLoS ONE, 2013, 8, e65945.	1.1	41
46	Expression of macrophage colony-stimulating factor and its receptor in microglia activation is linked to teratogen-induced neuronal damage. Neuroscience, 2002, 112, 889-900.	1.1	38
47	Paracrine Effects of Mesenchymal Stem Cells-Conditioned Medium on Microglial Cytokines Expression and Nitric Oxide Production. NeuroImmunoModulation, 2015, 22, 233-242.	0.9	38
48	A review of multi-functional ceramic nanoparticles in 3D printed bone tissue engineering. Bioprinting, 2021, 23, e00146.	2.9	37
49	Nanoparticle-Based Technology Approaches to the Management of Neurological Disorders. International Journal of Molecular Sciences, 2020, 21, 6070.	1.8	36
50	Transcriptome analysis reveals intermittent fasting-induced genetic changes in ischemic stroke. Human Molecular Genetics, 2018, 27, 1497-1513.	1.4	34
51	Differential gene expression profiles during embryonic heart development in diabetic mice pregnancy. Gene, 2013, 516, 218-227.	1.0	31
52	Significance of metallothionein expression in breast myoepithelial cells. Cell and Tissue Research, 2001, 303, 221-226.	1.5	30
53	Altered gene expression with abnormal patterning of the telencephalon in embryos of diabetic Albino Swiss mice. Diabetologia, 2004, 47, 523-531.	2.9	30
54	Cardiac Malformations Are Associated with Altered Expression of Vascular Endothelial Growth Factor and Endothelial Nitric Oxide Synthase Genes in Embryos of Diabetic Mice. Experimental Biology and Medicine, 2008, 233, 1421-1432.	1.1	29

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55	Dihydropyrimidinase-like 3 regulates the inflammatory response of activated microglia. Neuroscience, 2013, 253, 40-54.	1.1	29
56	A study of Titanium and Magnesium particle-induced oxidative stress and toxicity to human osteoblasts. Materials Science and Engineering C, 2020, 117, 111285.	3.8	27
57	A comparative investigation on the mechanical properties and cytotoxicity of Cubic, Octet, and TPMS gyroid structures fabricated by selective laser melting of stainless steel 316L. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 129, 105151.	1.5	27
58	Inducible nitric oxide synthase and bcl-2 expression in nasopharyngeal cancer: correlation with outcome of patients after radiotherapy. International Journal of Radiation Oncology Biology Physics, 2003, 56, 837-845.	0.4	25
59	Maternal Diabetes Alters Expression of MicroRNAs that Regulate Genes Critical for Neural Tube Development. Frontiers in Molecular Neuroscience, 2017, 10, 237.	1.4	25
60	Upregulation of Dpysl2 and Spna2 gene expression in the rat brain after ischemic stroke. Neurochemistry International, 2009, 55, 235-242.	1.9	24
61	Synthesis methods of functionalized nanoparticles: a review. Bio-Design and Manufacturing, 2021, 4, 379-404.	3.9	24
62	Arginine Vasopressin- and Oxytocin-like Immunoreactive Neurons in the Hypothalamic Paraventricular and Supraoptic Nuclei of Streptozotocin-Induced Diabetic Rats.. Archives of Histology and Cytology, 1994, 57, 461-472.	0.2	22
63	Distribution of NADPH-diaphorase and expression of nNOS, N-methyl-D-aspartate receptor (NMDAR1) and non-NMDA glutamate receptor (GlutR2) genes in the neurons of the hippocampus after domoic acid-induced lesions in adult rats. Hippocampus, 2003, 13, 260-272.	0.9	21
64	Frontiers in research on maternal diabetes-induced neural tube defects: Past, present and future. World Journal of Diabetes, 2012, 3, 196.	1.3	21
65	Nanomedicine and its Application in Treatment of Microglia-mediated Neuroinflammation. Current Medicinal Chemistry, 2014, 21, 4215-4226.	1.2	21
66	Effects of insulin-like growth factors (IGF) on pancreatic islet function in IGF binding protein-1 transgenic mice. Diabetologia, 1996, 39, 1249-1254.	2.9	20
67	Response of amoeboid microglia/brain macrophages in fetal rat brain exposed to a teratogen. Journal of Neuroscience Research, 2001, 64, 79-93.	1.3	19
68	Differential expression of cytokines in the rat heart in response to sustained volume overload. European Journal of Heart Failure, 2004, 6, 693-703.	2.9	19
69	Aldose reductase is implicated in high glucose-induced oxidative stress in mouse embryonic neural stem cells. Journal of Neurochemistry, 2007, 103, 1654-1665.	2.1	19
70	miRâ€128 Regulates Genes Associated with Inflammation and Fibrosis of Rat Kidney Cells In Vitro. Anatomical Record, 2018, 301, 913-921.	0.8	19
71	Potential Drugs Targeting Microglia: Current Knowledge and Future Prospects. CNS and Neurological Disorders - Drug Targets, 2013, 12, 799-806.	0.8	19
72	Enhanced inflammatory response in neural tubes of embryos derived from diabetic mice exposed to a teratogen. Journal of Neuroscience Research, 2004, 75, 554-564.	1.3	18

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73	miR-142-3p Regulates BDNF Expression in Activated Rodent Microglia Through Its Target CAMK2A. Frontiers in Cellular Neuroscience, 2020, 14, 132.	1.8	18
74	Runx1t1 (Runt-Related Transcription Factor 1; Translocated to, 1) Epigenetically Regulates the Proliferation and Nitric Oxide Production of Microglia. PLoS ONE, 2014, 9, e89326.	1.1	18
75	Hyperglycemia and impaired glucose tolerance in IGF binding protein-1 transgenic mice. American Journal of Physiology - Endocrinology and Metabolism, 1996, 270, E565-E571.	1.8	17
76	Molecular analysis of the vagal motoneuronal degeneration after right vagotomy. Journal of Neuroscience Research, 2002, 69, 406-417.	1.3	17
77	Expression of sphingosine kinase 1 in amoeboid microglial cells in the corpus callosum of postnatal rats. Journal of Neuroinflammation, 2011, 8, 13.	3.1	17
78	Microglial SMAD4 regulated by microRNA-146a promotes migration of microglia which support tumor progression in a glioma environment. Oncotarget, 2018, 9, 24950-24969.	0.8	17
79	Induction of cytokine expression in the brain macrophages/amoeboid microglia of the fetal rat exposed to a teratogen. NeuroReport, 2001, 12, 1391-1397.	0.6	16
80	Expressions of cytokines and chemokines in the dorsal motor nucleus of the vagus nerve after right vagotomy. Molecular Brain Research, 2005, 142, 47-57.	2.5	16
81	Potential adverse effects of engineered nanomaterials commonly used in food on the miRNome. Food and Chemical Toxicology, 2017, 109, 771-779.	1.8	16
82	Activation of microglia in acute hippocampal slices affects activity-dependent long-term potentiation and synaptic tagging and capture in area CA1. Neurobiology of Learning and Memory, 2019, 163, 107039.	1.0	16
83	Islet cell proliferation and apoptosis in insulin-like growth factor binding protein-1 in transgenic mice. Journal of Endocrinology, 1997, 155, 551-558.	1.2	16
84	High glucose alters the DNA methylation pattern of neurodevelopment associated genes in human neural progenitor cells in vitro. Scientific Reports, 2020, 10, 15676.	1.6	14
85	Histone Modifications as Molecular Targets in Nasopharyngeal Cancer. Current Medicinal Chemistry, 2016, 23, 186-197.	1.2	14
86	Induction of cytokine expression in rat post-ischemic sinoatrial node (SAN). Cell and Tissue Research, 2002, 310, 59-66.	1.5	13
87	Zika virus alters DNA methylation status of genes involved in Hippo signaling pathway in human neural progenitor cells. Epigenomics, 2019, 11, 1143-1161.	1.0	13
88	A biomechanical evaluation on Cubic, Octet, and TPMS gyroid Ti6Al4V lattice structures fabricated by selective laser melting and the effects of their debris on human osteoblast-like cells. , 2022, 137, 212829.		13
89	Retinoic acid influences the expression of the neuronal regulatory genes Mash-1 and c-ret in the developing rat heart. Neuroscience Letters, 2002, 318, 129-132.	1.0	12
90	2â€², 3â€²-cyclic nucleotide 3â€²-phosphodiesterase cells derived from transplanted marrow stromal cells and host tissue contribute to perineurial compartment formation in injured rat spinal cord. Journal of Neuroscience Research, 2007, 85, 116-130.	1.3	11

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91	Expression of cyclooxygenaseâ€2 and microsomal prostaglandinâ€E synthase in amoeboid microglial cells in the developing brain and effects of cyclooxygenaseâ€2 neutralization on BVâ€2 microglial cells. Journal of Neuroscience Research, 2010, 88, 1577-1594.	1.3	11
92	Ultrastructural Changes in the Hypothalamic Paraventricular Nucleus of the Streptozotocin-Induced Diabetic Rat. Cells Tissues Organs, 1994, 149, 291-299.	1.3	9
93	Acute cardiac injury induces glial cell response and activates extracellular signaling-regulated kinase-1 and -2 in the spinal cord of Wistar rats. Neuroscience Letters, 2004, 366, 34-38.	1.0	9
94	Linearization and Labeling of Single-Stranded DNA for Optical Sequence Analysis. Journal of Physical Chemistry Letters, 2019, 10, 316-321.	2.1	8
95	Evaluation and characterization of nitinol stents produced by selective laser melting with various process parameters. Progress in Additive Manufacturing, 2022, 7, 1141-1153.	2.5	8
96	The effect of TNF-Î± on osteoblasts in metal wear-induced periprosthetic bone loss. Bone and Joint Research, 2020, 9, 827-839.	1.3	7
97	Therapeutic Prospects in Preeclampsia - A Mini-Review. Current Medicinal Chemistry, 2019, 26, 4786-4798.	1.2	6
98	Nutrient sensitive protein O-GlcNAcylation modulates the transcriptome through epigenetic mechanisms during embryonic neurogenesis. Life Science Alliance, 2022, 5, e202201385.	1.3	6
99	Retinoic acid influences Phox2 expression of cardiac ganglionic cells in the developing rat heart. Neuroscience Letters, 2002, 321, 41-44.	1.0	5
100	A composite 3D printed model of the midcarpal joint. Anatomical Science International, 2019, 94, 158-162.	0.5	5
101	Localization of insulin-like immunoreactive neurons in the rat gracile nucleus. Histology and Histopathology, 1996, 11, 667-72.	0.5	3
102	Bone biology in postnatal Wistar rats following hypoxia-reoxygenation. Histology and Histopathology, 2020, 35, 111-124.	0.5	3
103	Identification of differentially expressed genes in fetal rat forebrain exposed to a teratogen by cDNA microarray analysis. Histology and Histopathology, 2007, 22, 729-42.	0.5	3
104	Enhanced expression of transforming growth factor-beta isoforms in the neural tube of embryos derived from diabetic mice exposed to cyclophosphamide. Neuroscience Letters, 2003, 351, 51-55.	1.0	2
105	Cytotoxicity of Ti/SS316/Mg Particles on Human Osteoblasts. Materials Science Forum, 0, 1047, 128-133.	0.3	2
106	Ultrastructural changes in the hypothalamic supraoptic nucleus of the streptozotocin-induced diabetic rat. Journal of Anatomy, 1994, 184 (Pt 3), 615-23.	0.9	2
107	A paradigm shift: emerging roles of microglia, a non-neuronal cell, in learning and memory. Neural Regeneration Research, 2021, 16, 1992.	1.6	1
108	Role of microRNAâ€9 in the pathogenesis of Parkinson's Disease. FASEB Journal, 2018, 32, 545.6.	0.2	1

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109	Ultrastructure of the cuneate nucleus in the streptozotocin-induced diabetic rat. Journal FÃ¼r Hirnforschung, 1994, 35, 253-62.	0.0	1
110	Biocompatibility and Mechanical Properties Evaluation of Ti-6Al-4V Lattice Structures with Varying Porosities. Key Engineering Materials, 0, 923, 21-29.	0.4	1
111	Disregulated Sphk1, Sphk2 and their receptors in the brain of MPTPâ€induced mouse model of Parkinson's disease. FASEB Journal, 2012, 26, 920.6.	0.2	0
112	MicroRNAâ€124 and its target gene are altered in the substantia nigra (SNc) of the brain of MPTPâ€mouse model of Parkinson's disease. FASEB Journal, 2012, 26, 83.6.	0.2	0
113	Localization of insulin-like immunoreactive neurons in the hypothalamic paraventricular and supraoptic nuclei of streptozotocin-induced diabetic rats. Journal FÃ¼r Hirnforschung, 1994, 35, 487-94.	0.0	0