

Stella E Tsirka

List of Publications by Year in descending order

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125
papers

10,047
citations

38742

50
h-index

36028

97
g-index

128
all docs

128
docs citations

128
times ranked

12823
citing authors

#	ARTICLE	IF	CITATIONS
1	Microglia Shape Adult Hippocampal Neurogenesis through Apoptosis-Coupled Phagocytosis. <i>Cell Stem Cell</i> , 2010, 7, 483-495.	11.1	1,286
2	Excitotoxin-induced neuronal degeneration and seizure are mediated by tissue plasminogen activator. <i>Nature</i> , 1995, 377, 340-344.	27.8	651
3	p53 Opens the Mitochondrial Permeability Transition Pore to Trigger Necrosis. <i>Cell</i> , 2012, 149, 1536-1548.	28.9	644
4	Tissue plasminogen activator (tPA) increase neuronal damage after focal cerebral ischemia in wild-type and tPA-deficient mice. <i>Nature Medicine</i> , 1998, 4, 228-231.	30.7	623
5	An Extracellular Proteolytic Cascade Promotes Neuronal Degeneration in the Mouse Hippocampus. <i>Journal of Neuroscience</i> , 1997, 17, 543-552.	3.6	410
6	Neuroprotection by inhibition of matrix metalloproteinases in a mouse model of intracerebral haemorrhage. <i>Brain</i> , 2005, 128, 1622-1633.	7.6	295
7	Neurotoxic responses by microglia elicited by excitotoxic injury in the mouse hippocampus. <i>Current Biology</i> , 1998, 8, 19-25.	3.9	293
8	Fatty Acid-binding Proteins (FABPs) Are Intracellular Carriers for δ^9 -Tetrahydrocannabinol (THC) and Cannabidiol (CBD). <i>Journal of Biological Chemistry</i> , 2015, 290, 8711-8721.	3.4	228
9	Neuronal cell death and tPA. <i>Nature</i> , 1996, 384, 123-124.	27.8	223
10	Microglia Actively Regulate the Number of Functional Synapses. <i>PLoS ONE</i> , 2013, 8, e56293.	2.5	202
11	Tissue Plasminogen Activator Mediates Microglial Activation via Its Finger Domain through Annexin II. <i>Journal of Neuroscience</i> , 2002, 22, 3352-3358.	3.6	192
12	Microglia/macrophages promote glioma progression. <i>Glia</i> , 2011, 59, 472-485.	4.9	188
13	The Tissue Plasminogen Activator (Tpa/Plasmin) Extracellular Proteolytic System Regulates Seizure-Induced Hippocampal Mossy Fiber Outgrowth through a Proteoglycan Substrate. <i>Journal of Cell Biology</i> , 2000, 148, 1295-1304.	5.2	182
14	Protective role of tuftsin fragment 1-3 in an animal model of intracerebral hemorrhage. <i>Annals of Neurology</i> , 2003, 54, 655-664.	5.3	168
15	Monocyte chemoattractant protein-1 and the blood-brain barrier. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 683-697.	5.4	143
16	Tuftsin Fragment 1-3 Is Beneficial When Delivered After the Induction of Intracerebral Hemorrhage. <i>Stroke</i> , 2005, 36, 613-618.	2.0	137
17	Cell-Culture Models of the Blood-Brain Barrier. <i>Stroke</i> , 2014, 45, 2514-2526.	2.0	129
18	Cell Type-Specific Roles for Tissue Plasminogen Activator Released by Neurons or Microglia after Excitotoxic Injury. <i>Journal of Neuroscience</i> , 2003, 23, 3234-3242.	3.6	120

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19	Csf1R inhibition attenuates experimental autoimmune encephalomyelitis and promotes recovery. <i>Experimental Neurology</i> , 2018, 307, 24-36.	4.1	115
20	Tissue-type plasminogen activator as a therapeutic target in stroke. <i>Expert Opinion on Therapeutic Targets</i> , 2008, 12, 159-170.	3.4	110
21	A novel approach for imaging brain-behavior relationships in mice reveals unexpected metabolic patterns during seizures in the absence of tissue plasminogen activator. <i>NeuroImage</i> , 2007, 38, 34-42.	4.2	109
22	Dynamic microglial modulation of spatial learning and social behavior. <i>Brain, Behavior, and Immunity</i> , 2016, 55, 6-16.	4.1	106
23	Contribution of Extracellular Proteolysis and Microglia to Intracerebral Hemorrhage. <i>Neurocritical Care</i> , 2005, 3, 077-085.	2.4	104
24	Nitric oxide mediates neurodegeneration and breakdown of the blood-brain barrier in tPA-dependent excitotoxic injury in mice. <i>Journal of Cell Science</i> , 2006, 119, 339-349.	2.0	104
25	p73 is an essential regulator of neural stem cell maintenance in embryonal and adult CNS neurogenesis. <i>Cell Death and Differentiation</i> , 2010, 17, 1816-1829.	11.2	102
26	Annexin A2 Promotes Glioma Cell Invasion and Tumor Progression. <i>Journal of Neuroscience</i> , 2011, 31, 14346-14360.	3.6	99
27	Neurotrophin-3 modulates breast cancer cells and the microenvironment to promote the growth of breast cancer brain metastasis. <i>Oncogene</i> , 2013, 32, 4064-4077.	5.9	95
28	Brain edema after intracerebral hemorrhage: mechanisms, treatment options, management strategies, and operative indications. <i>Neurosurgical Focus</i> , 2007, 22, 1-7.	2.3	92
29	Animal Models of MS Reveal Multiple Roles of Microglia in Disease Pathogenesis. <i>Neurology Research International</i> , 2011, 2011, 1-9.	1.3	91
30	Modulation of microglial/macrophage activation by macrophage inhibitory factor (TKP) or tuftsin (TKPR) attenuates the disease course of experimental autoimmune encephalomyelitis. <i>BMC Immunology</i> , 2007, 8, 10.	2.2	85
31	The Annexin A2/S100A10 System in Health and Disease: Emerging Paradigms. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-13.	3.0	85
32	Laminin chain expression suggests that laminin-10 is a major isoform in the mouse hippocampus and is degraded by the tissue plasminogen activator/plasmin protease cascade during excitotoxic injury. <i>Neuroscience</i> , 2003, 116, 359-371.	2.3	84
33	Fibrin-modifying serine proteases thrombin, tPA, and plasmin in ischemic stroke: A review. <i>Glia</i> , 2005, 50, 340-350.	4.9	81
34	Microglial ablation and lipopolysaccharide preconditioning affects pilocarpine-induced seizures in mice. <i>Neurobiology of Disease</i> , 2010, 39, 85-97.	4.4	79
35	Proteolytic Activation of Monocyte Chemoattractant Protein-1 by Plasmin Underlies Excitotoxic Neurodegeneration in Mice. <i>Journal of Neuroscience</i> , 2007, 27, 1738-1745.	3.6	78
36	Advances in immunotherapeutic research for glioma therapy. <i>Journal of Neurology</i> , 2018, 265, 741-756.	3.6	77

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37	Involvement of Tissue Plasminogen Activator in Onset and Effector Phases of Experimental Allergic Encephalomyelitis. <i>Journal of Neuroscience</i> , 2002, 22, 10781-10789.	3.6	73
38	Truncation of monocyte chemoattractant protein 1 by plasmin promotes blood-brain barrier disruption. <i>Journal of Cell Science</i> , 2011, 124, 1486-1495.	2.0	72
39	Clinical implications of the involvement of tPA in neuronal cell death. <i>Journal of Molecular Medicine</i> , 1997, 75, 341-347.	3.9	67
40	The Diverse Roles of Microglia in the Neurodegenerative Aspects of Central Nervous System (CNS) Autoimmunity. <i>International Journal of Molecular Sciences</i> , 2017, 18, 504.	4.1	65
41	Small Molecule Neuropilin-1 Antagonists Combine Antiangiogenic and Antitumor Activity with Immune Modulation through Reduction of Transforming Growth Factor Beta (TGF β 2) Production in Regulatory T-Cells. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4135-4154.	6.4	65
42	The CCL2-CCR2 system affects the progression and clearance of intracerebral hemorrhage. <i>Glia</i> , 2012, 60, 908-918.	4.9	64
43	Tissue plasminogen activator as a modulator of neuronal survival and function. <i>Biochemical Society Transactions</i> , 2002, 30, 222-225.	3.4	63
44	Microglial activation and recruitment, but not proliferation, suffice to mediate neurodegeneration. <i>Cell Death and Differentiation</i> , 2002, 9, 801-806.	11.2	61
45	Axonal Regrowth after Spinal Cord Injury via Chondroitinase and the Tissue Plasminogen Activator (tPA)/Plasmin System. <i>Journal of Neuroscience</i> , 2011, 31, 14931-14943.	3.6	60
46	Proliferation and Differentiation in the Adult Subventricular Zone Are Not Affected by CSF1R Inhibition. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 97.	3.7	60
47	Aberrant Neural Stem Cell Proliferation and Increased Adult Neurogenesis in Mice Lacking Chromatin Protein HMGB2. <i>PLoS ONE</i> , 2013, 8, e84838.	2.5	60
48	Fatty-acid-binding protein 5 controls retrograde endocannabinoid signaling at central glutamate synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3482-3487.	7.1	59
49	PET imaging of glucose metabolism in a mouse model of temporal lobe epilepsy. <i>Synapse</i> , 2006, 59, 119-121.	1.2	55
50	Inflammation modulates expression of laminin in the central nervous system following ischemic injury. <i>Journal of Neuroinflammation</i> , 2012, 9, 159.	7.2	54
51	The Experimental Autoimmune Encephalomyelitis Disease Course Is Modulated by Nicotine and Other Cigarette Smoke Components. <i>PLoS ONE</i> , 2014, 9, e107979.	2.5	54
52	Ablation of Neuropilin 1 from glioma-associated microglia and macrophages slows tumor progression. <i>Oncotarget</i> , 2016, 7, 9801-9814.	1.8	53
53	Tissue plasminogen activator and glial function. <i>Glia</i> , 2005, 49, 177-183.	4.9	52
54	Interactions between Tumor Cells, Neurons, and Microglia in the Glioma Microenvironment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8476.	4.1	52

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55	Deletion of Neuropilin 1 from Microglia or Bone Marrow-Derived Macrophages Slows Glioma Progression. <i>Cancer Research</i> , 2018, 78, 685-694.	0.9	48
56	Reduced cortical injury and edema in tissue plasminogen activator knockout mice after brain trauma. <i>NeuroReport</i> , 2001, 12, 4117-4120.	1.2	47
57	Microglia modulate stable wakefulness via the thalamic reticular nucleus in mice. <i>Nature Communications</i> , 2021, 12, 4646.	12.8	47
58	Microglia: An Active Player in the Regulation of Synaptic Activity. <i>Neural Plasticity</i> , 2013, 2013, 1-9.	2.2	46
59	Phospholipase D1-Promoted Release of Tissue Plasminogen Activator Facilitates Neurite Outgrowth. <i>Journal of Neuroscience</i> , 2005, 25, 1797-1805.	3.6	44
60	Tuftsins signal through its receptor neuropilin-1 via the transforming growth factor beta pathway. <i>Journal of Neurochemistry</i> , 2013, 127, 394-402.	3.9	44
61	Endothelial NOS-deficient mice reveal dual roles for nitric oxide during experimental autoimmune encephalomyelitis. <i>Glia</i> , 2009, 57, 1204-1215.	4.9	41
62	Tuftsins Promotes an Anti-Inflammatory Switch and Attenuates Symptoms in Experimental Autoimmune Encephalomyelitis. <i>PLoS ONE</i> , 2012, 7, e34933.	2.5	38
63	Increased expression of two phospholipase D isoforms during experimentally induced hippocampal mossy fiber outgrowth. <i>Glia</i> , 2004, 46, 74-83.	4.9	37
64	Isolation and Characterization of Two Novel, Cytoplasmically Polyadenylated, Oocyte-Specific, Mouse Maternal RNAs. <i>Developmental Biology</i> , 1996, 175, 132-141.	2.0	35
65	Microglial inhibitory factor (MIF/TKP) mitigates secondary damage following spinal cord injury. <i>Neurobiology of Disease</i> , 2012, 47, 295-309.	4.4	35
66	Members of the high mobility group B protein family are dynamically expressed in embryonic neural stem cells. <i>Proteome Science</i> , 2013, 11, 18.	1.7	33
67	Nitric Oxide Synthase Isoforms Undertake Unique Roles During Excitotoxicity. <i>Stroke</i> , 2007, 38, 1938-1945.	2.0	32
68	Culturing Microglia from the Neonatal and Adult Central Nervous System. <i>Journal of Visualized Experiments</i> , 2013, , 50647.	0.3	30
69	Tuftsins-driven experimental autoimmune encephalomyelitis recovery requires neuropilin-1. <i>Glia</i> , 2016, 64, 923-936.	4.9	30
70	Expression of neuropilin-1 is linked to glioma associated microglia and macrophages and correlates with unfavorable prognosis in high grade gliomas. <i>Oncotarget</i> , 2018, 9, 35655-35665.	1.8	30
71	Unmasking Proteolytic Activity for Adult Visual Cortex Plasticity by the Removal of Lynx1. <i>Journal of Neuroscience</i> , 2015, 35, 12693-12702.	3.6	29
72	The C Terminus of Mouse Monocyte Chemoattractant Protein 1 (MCP1) Mediates MCP1 Dimerization while Blocking Its Chemotactic Potency. <i>Journal of Biological Chemistry</i> , 2010, 285, 31509-31516.	3.4	28

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73	Tissue Plasminogen Activator Alters Intracellular Sequestration of Zinc through Interaction with the Transporter ZIP4. <i>Journal of Neuroscience</i> , 2010, 30, 6538-6547.	3.6	27
74	Modulation of zinc toxicity by tissue plasminogen activator. <i>Molecular and Cellular Neurosciences</i> , 2004, 25, 162-171.	2.2	24
75	Repolarized macrophages, induced by intermediate stereotactic dose radiotherapy and immune checkpoint blockade, contribute to long-term survival in glioma-bearing mice. <i>Journal of Neuro-Oncology</i> , 2020, 147, 547-555.	2.9	23
76	Chemokines and Their Receptors in Intracerebral Hemorrhage. <i>Translational Stroke Research</i> , 2012, 3, 70-79.	4.2	22
77	Chronic stress disrupts the homeostasis and progeny progression of oligodendroglial lineage cells, associating immune oligodendrocytes with prefrontal cortex hypomyelination. <i>Molecular Psychiatry</i> , 2022, 27, 2833-2848.	7.9	22
78	Inflammatory stress response in A549 cells as a result of exposure to coal: Evidence for the role of pyrite in coal workers' pneumoconiosis pathogenesis. <i>Chemosphere</i> , 2013, 93, 1216-1221.	8.2	20
79	Neurogenic to Gliogenic Fate Transition Perturbed by Loss of HMGB2. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 153.	2.9	19
80	Tuftsins Combine With Remyelinating Therapy and Improves Outcomes in Models of CNS Demyelinating Disease. <i>Frontiers in Immunology</i> , 2018, 9, 2784.	4.8	19
81	tPA-mediated generation of plasmin is catalyzed by the proteoglycan NG2. <i>Glia</i> , 2008, 56, 177-189.	4.9	18
82	Decreased serotonin levels associated with behavioral disinhibition in tissue plasminogen activator deficient (tPA ^{-/-}) mice. <i>Brain Research</i> , 2010, 1326, 135-142.	2.2	18
83	A distinct microglial subset at the tumor-stroma interface of glioma. <i>Glia</i> , 2021, 69, 1767-1781.	4.9	18
84	Metal-sulfide mineral ores, Fenton chemistry and disease Particle induced inflammatory stress response in lung cells. <i>International Journal of Hygiene and Environmental Health</i> , 2015, 218, 19-27.	4.3	17
85	Nicotine modulates neurogenesis in the central canal during experimental autoimmune encephalomyelitis. <i>Neuroscience</i> , 2015, 297, 11-21.	2.3	15
86	Neuroimmune Mechanisms and Sex/Gender-Dependent Effects in the Pathophysiology of Mental Disorders. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 375, 175-192.	2.5	15
87	Guanabenz modulates microglia and macrophages during demyelination. <i>Scientific Reports</i> , 2020, 10, 19333.	3.3	14
88	Visualizing the Brain's Astrocytes with Diverse Chemical Scaffolds. <i>ACS Chemical Biology</i> , 2018, 13, 1493-1498.	3.4	13
89	Partial rescue of neural apoptosis in the Lurcher mutant mouse through elimination of tissue plasminogen activator. <i>Development (Cambridge)</i> , 2002, 129, 2043-50.	2.5	13
90	Tissue plasminogen activator in brain tissues infected with transmissible spongiform encephalopathies. <i>Neurobiology of Disease</i> , 2005, 20, 519-527.	4.4	12

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91	The role of Iraqi dust in inducing lung injury in United States soldiers—An interdisciplinary study. <i>GeoHealth</i> , 2017, 1, 237-246.	4.0	12
92	Quantification of particle-induced inflammatory stress response: a novel approach for toxicity testing of earth materials. <i>Geochemical Transactions</i> , 2012, 13, 4.	0.7	11
93	Mouse MCP1 C-terminus inhibits human MCP1-induced chemotaxis and BBB compromise. <i>Journal of Neurochemistry</i> , 2011, 118, 215-223.	3.9	9
94	Mitigation of radiation myelopathy and reduction of microglial infiltration by Ramipril, ACE inhibitor. <i>Spinal Cord</i> , 2018, 56, 733-740.	1.9	9
95	Microglial contributions to aberrant neurogenesis and pathophysiology of epilepsy. <i>Neuroimmunology and Neuroinflammation</i> , 2020, 2020, 234-247.	1.4	9
96	Neuroimaging in Animal Seizure Models with 18FDG-PET. <i>Epilepsy Research & Treatment</i> , 2011, 2011, 1-8.	1.4	8
97	Pifithrin-1 modulates microglial activation and promotes histological recovery following spinal cord injury. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 200-214.	3.9	8
98	Extracellular histones, a new class of inhibitory molecules of CNS axonal regeneration. <i>Brain Communications</i> , 2021, 3, fcab271.	3.3	8
99	Removal of tissue plasminogen activator does not protect against neuronal degeneration in the cerebellum of the weaver mouse. <i>Brain Research</i> , 1997, 772, 233-238.	2.2	7
100	Absence of cytotoxicity towards microglia of iron oxide (α -Fe ₂ O ₃) nanorhombhedra. <i>Toxicology Research</i> , 2016, 5, 836-847.	2.1	7
101	Prophylactic Administration of Cannabidiol Reduces Microglial Inflammatory Response to Kainate-Induced Seizures and Neurogenesis. <i>Neuroscience</i> , 2022, 500, 1-11.	2.3	7
102	Increased Behavioral Deficits and Inflammation in a Mouse Model of Co-Morbid Traumatic Brain Injury and Post-Traumatic Stress Disorder. <i>ASN Neuro</i> , 2020, 12, 175909142097956.	2.7	6
103	Lucanthone Targets Lysosomes to Perturb Glioma Proliferation, Chemoresistance and Stemness, and Slows Tumor Growth In Vivo. <i>Frontiers in Oncology</i> , 2022, 12, 852940.	2.8	6
104	Mouse monocyte chemoattractant protein 1 (MCP1) functions as a monomer. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 55, 51-59.	2.8	5
105	Lunar soil simulants alter macrophage survival and function. <i>Journal of Applied Toxicology</i> , 2019, 39, 1413-1423.	2.8	4
106	Neuroinflammatory changes of the normal brain tissue in cured mice following combined radiation and anti-PD-1 blockade therapy for glioma. <i>Scientific Reports</i> , 2021, 11, 5057.	3.3	4
107	BSSE: An open-source image processing tool for miniaturized microscopy. <i>Optics Express</i> , 2019, 27, 17620.	3.4	4
108	A Rigorous Quantitative Approach to Analyzing Phagocytosis Assays. <i>Bio-protocol</i> , 2020, 10, .	0.4	4

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109	ADAM10 facilitates rapid neural stem cell cycling and proper positioning within the subventricular zone niche via JAMC/RAP1Gap signaling. <i>Neural Regeneration Research</i> , 2022, 17, 2472.	3.0	4
110	Beyond Myelination: Possible Roles of the Immune Proteasome in Oligodendroglial Homeostasis and Dysfunction. <i>Frontiers in Neuroscience</i> , 2022, 16, .	2.8	4
111	Contributions of immune cell populations in the maintenance, progression, and therapeutic modalities of glioma. <i>AIMS Allergy and Immunology</i> , 2018, 2, 24-44.	0.5	2
112	Defining differential roles for microglia and infiltrating macrophages in the growth and neovascularization of glioma. <i>Translational Cancer Research</i> , 2016, 5, S648-S651.	1.0	2
113	Breast-to-brain metastasis: a focus on the pre-metastatic niche. , 0, , .		1
114	Depression Mediated By Inflammatory Responses To Chronic Stress. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
115	Immunosuppression in Multiple Sclerosis and Other Neurologic Disorders. <i>Handbook of Experimental Pharmacology</i> , 2021, , 245-265.	1.8	1
116	Preclinical model of multiple sclerosis: Methods in autoimmune demyelination. <i>Methods in Cell Biology</i> , 2022, 168, 67-86.	1.1	1
117	Recovery from ICH â€œ Potential Targets. , 0, , .		0
118	Sexual Dimorphism of Neuroimmune Cells and Its Impact on the Central Nervous System: a Special Issue. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 375, 152-153.	2.5	0
119	tPA as an effector of microglial activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S686-S686.	4.3	0
120	Improving repair and regeneration after spinal cord injury through combinatorial therapy (LB558). <i>FASEB Journal</i> , 2014, 28, LB558.	0.5	0
121	Cardiopulmonary Inflammatory Response to Meteorite Dust Exposure â€œ Implications for Human Health on Earth and Beyond. , 2020, , .		0
122	Preclinical model of multiple sclerosis: Focal, chemical or viral demyelination. <i>Methods in Cell Biology</i> , 2022, 168, 87-102.	1.1	0
123	Shaping functionality in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2203234119.	7.1	0
124	Studies on the function of myeloidâ€derived Neuropilinâ€1 in glioma: a focus on tumor hypoxia. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
125	Immune Phenotypes of Oligodendroglialâ€Lineage Cells in MDD and in Response to Chronic Stressâ€Induced Microglial Inflammation. <i>FASEB Journal</i> , 2022, 36, .	0.5	0