

Silvia Fossati

List of Publications by Year in descending order

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53
papers

2,421
citations

201674

27
h-index

233421

45
g-index

57
all docs

57
docs citations

57
times ranked

3981
citing authors

#	ARTICLE	IF	CITATIONS
1	Traumatic Brain Injury and Alzheimer's Disease: The Cerebrovascular Link. <i>EBioMedicine</i> , 2018, 28, 21-30.	6.1	250
2	White matter hyperintensities in vascular contributions to cognitive impairment and dementia (VCID): Knowledge gaps and opportunities. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2019, 5, 107-117.	3.7	250
3	High mobility group box 1 protein is released by neural cells upon different stresses and worsens ischemic neurodegeneration <i>in vitro</i> and <i>in vivo</i> . <i>Journal of Neurochemistry</i> , 2007, 103, 590-603.	3.9	204
4	Cerebrospinal Fluid Clearance in Alzheimer Disease Measured with Dynamic PET. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1471-1476.	5.0	161
5	Histone deacetylase (HDAC) inhibitors reduce the glial inflammatory response <i>in vitro</i> and <i>in vivo</i> . <i>Neurobiology of Disease</i> , 2009, 36, 269-279.	4.4	123
6	Plasma tau complements CSF tau and $\text{P}\tau$ in the diagnosis of Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 483-492.	2.4	86
7	Differential activation of mitochondrial apoptotic pathways by vasculotropic amyloid $\text{A}\beta$ variants in cells composing the cerebral vessel walls. <i>FASEB Journal</i> , 2010, 24, 229-241.	0.5	74
8	The carbonic anhydrase inhibitor methazolamide prevents amyloid beta-induced mitochondrial dysfunction and caspase activation protecting neuronal and glial cells <i>in vitro</i> and in the mouse brain. <i>Neurobiology of Disease</i> , 2016, 86, 29-40.	4.4	73
9	Endothelial Mitochondrial Dysfunction in Cerebral Amyloid Angiopathy and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2019, 72, 1019-1039.	2.6	72
10	TRAIL death receptors DR4 and DR5 mediate cerebral microvascular endothelial cell apoptosis induced by oligomeric Alzheimer's $\text{A}\beta$. <i>Cell Death and Disease</i> , 2012, 3, e321-e321.	6.3	66
11	Poly(ADP-ribose) Accumulation and Enhancement of Postischemic Brain Damage in 110-kDa Poly(ADP-ribose) Glycohydrolase Null Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 684-695.	4.3	65
12	Using fMRI connectivity to define a treatment-resistant form of post-traumatic stress disorder. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	65
13	Carbonic anhydrase inhibition selectively prevents amyloid $\text{A}\beta$ neurovascular mitochondrial toxicity. <i>Aging Cell</i> , 2018, 17, e12787.	6.7	64
14	A New Kid on the Block? Carbonic Anhydrases as Possible New Targets in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4724.	4.1	61
15	A Key Role for Poly(ADP-Ribose) Polymerase-1 Activity during Human Dendritic Cell Maturation. <i>Journal of Immunology</i> , 2007, 179, 305-312.	0.8	57
16	Tauroursodeoxycholic acid prevents E22Q Alzheimer's $\text{A}\beta$ toxicity in human cerebral endothelial cells. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 1094-1104.	5.4	57
17	Clearance of interstitial fluid (ISF) and CSF (CLIC) group part of Vascular Professional Interest Area (PIA). <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020, 12, e12053.	2.4	53
18	Inhibition of Poly(ADP-Ribose) Glycohydrolase by Gallotannin Selectively Up-Regulates Expression of Proinflammatory Genes. <i>Molecular Pharmacology</i> , 2004, 66, 890-898.	2.3	49

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19	Amyloidosis Associated with Cerebral Amyloid Angiopathy: Cell Signaling Pathways Elicited in Cerebral Endothelial Cells. <i>Journal of Alzheimer's Disease</i> , 2014, 42, S167-S176.	2.6	49
20	Matrix Metalloproteinase 2 (MMP-2) Degrades Soluble Vasculotropic Amyloid- β E22Q and L34V Mutants, Delaying Their Toxicity for Human Brain Microvascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 27144-27158.	3.4	43
21	Insights into Caspase-Mediated Apoptotic Pathways Induced by Amyloid- β in Cerebral Microvascular Endothelial Cells. <i>Neurodegenerative Diseases</i> , 2012, 10, 324-328.	1.4	41
22	The nonlinear relationship between cerebrospinal fluid A β 242 and tau in preclinical Alzheimer's disease. <i>PLoS ONE</i> , 2018, 13, e0191240.	2.5	41
23	Dutch and arctic mutant peptides of β amyloid1-40 differentially affect the FGF-2 pathway in brain endothelium. <i>Experimental Cell Research</i> , 2009, 315, 385-395.	2.6	39
24	Differential contribution of isoaspartate post-translational modifications to the fibrillization and toxic properties of amyloid β and the Asn23 Iowa mutation. <i>Biochemical Journal</i> , 2013, 456, 347-360.	3.7	39
25	Alzheimer's amyloid β heterogeneous species differentially affect brain endothelial cell viability, blood-brain barrier integrity, and angiogenesis. <i>Aging Cell</i> , 2020, 19, e13258.	6.7	39
26	Dissecting the Crosstalk between Endothelial Mitochondrial Damage, Vascular Inflammation, and Neurodegeneration in Cerebral Amyloid Angiopathy and Alzheimer's Disease. <i>Cells</i> , 2021, 10, 2903.	4.1	36
27	Greater Specificity for Cerebrospinal Fluid P-tau231 over P-tau181 in the Differentiation of Healthy Controls from Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 49, 93-100.	2.6	35
28	Neither energy collapse nor transcription underlie in vitro neurotoxicity of poly(ADP-ribose) polymerase hyper-activation. <i>Neurochemistry International</i> , 2007, 50, 203-210.	3.8	28
29	Carbonic Anhydrases as Potential Targets Against Neurovascular Unit Dysfunction in Alzheimer's Disease and Stroke. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 772278.	3.4	27
30	Poly(ADP-ribosyl)ation regulates heat shock factor-1 activity and the heat shock response in murine fibroblasts. <i>Biochemistry and Cell Biology</i> , 2006, 84, 703-712.	2.0	24
31	Impact of Tau on Neurovascular Pathology in Alzheimer's Disease. <i>Frontiers in Neurology</i> , 2020, 11, 573324.	2.4	24
32	Kynurenic acid actions in brain and periphery. <i>International Congress Series</i> , 2007, 1304, 305-313.	0.2	22
33	Relevance of High-Mobility Group Protein Box 1 to Neurodegeneration. <i>International Review of Neurobiology</i> , 2007, 82, 137-148.	2.0	16
34	Beta-Amyloid Instigates Dysfunction of Mitochondria in Cardiac Cells. <i>Cells</i> , 2022, 11, 373.	4.1	15
35	Mitochondrial dysfunction induced by a post-translationally modified amyloid linked to a familial mutation in an alternative model of neurodegeneration. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 2457-2467.	3.8	14
36	P3 β 464: CARBONIC ANHYDRASE INHIBITORS AMELIORATE NEUROVASCULAR DYSFUNCTION IN A MOUSE MODEL OF CEREBRAL AMYLOID ANGIOPATHY. <i>Alzheimer's and Dementia</i> , 2018, 14, P1296.	0.8	12

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37	Effect of Combat Exposure and Posttraumatic Stress Disorder on Telomere Length and Amygdala Volume. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 678-687.	1.5	10
38	Poster Viewing Sessions PB01-B01 to PB03-V09. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 167-523.	4.3	7
39	CRF serum levels differentiate PTSD from healthy controls and TBI in military veterans. <i>Psychiatric Research and Clinical Practice</i> , 2021, 3, 153-162.	2.4	7
40	Analysis of Mitochondrial Calcium Retention Capacity in Cultured Cells: Permeabilized Cells Versus Isolated Mitochondria. <i>Frontiers in Physiology</i> , 2021, 12, 773839.	2.8	7
41	Plasma tau predicts cerebral vulnerability in aging. <i>Aging</i> , 2020, 12, 21004-21022.	3.1	5
42	Carboxymethyl Î²-glucan Binds to Corneal Epithelial Cells and Increases Cell Adhesion to Laminin and Resistance to Oxidative Stress. <i>Cornea</i> , 2007, 26, 73-79.	1.7	4
43	[P4â€“133]: DIFFERENTIAL VALUE OF PLASMA TAU AS A BIOMARKER FOR ALZHEIMER'S DISEASE AND CHRONIC TRAUMATIC BRAIN INJURY. <i>Alzheimer's and Dementia</i> , 2017, 13, P1307.	0.8	3
44	Editorial: Identification of Multiple Targets in the Fight Against Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 169.	3.4	3
45	Carbonic anhydrase inhibition ameliorates AÎ²â€“induced neurovascular dysfunction in vivo. <i>Alzheimer's and Dementia</i> , 2020, 16, e044221.	0.8	1
46	O2-12-01: MITOCHONDRIA AND DEATH RECEPTORS: KEY TARGETS FOR AMYLOID TOXICITY IN THE CEREBRAL VASCULATURE. , 2014, 10, P191-P191.		0
47	P4-209: Methazolamide protects neuronal and glial cells from amyloid toxicity in vitro and in vivo via mitochondria-mediated mechanisms. , 2015, 11, P860-P861.		0
48	P2â€“099: Carbonic Anhydrase is a Crucial Target for Prevention of Mitochondrial Pathology in Alzheimerâ€™s Models. <i>Alzheimer's and Dementia</i> , 2016, 12, P650.	0.8	0
49	T16. Discovery of Novel Blood Biomarkers for PTSD and TBI. <i>Biological Psychiatry</i> , 2018, 83, S134-S135.	1.3	0
50	Vascular dysfunction in CAA in the presence of cardiovascular risk factors: The role of the mitochondria and therapeutic approaches. <i>Alzheimer's and Dementia</i> , 2020, 16, e043944.	0.8	0
51	Reader Response: Blood Biomarkers of Traumatic Brain Injury and Cognitive Impairment in Older Veterans. <i>Neurology</i> , 2021, 97, 101.1-101.	1.1	0
52	Amyloid beta oligomers trigger death receptorsâ€“mediated apoptosis in cerebral endothelial cells. <i>FASEB Journal</i> , 2012, 26, 752.8.	0.5	0
53	Comparative analysis of mitochondrial CRC in permeabilized cells and isolated cell mitochondria. <i>FASEB Journal</i> , 2022, 36, .	0.5	0