Denis Vivien

List of Publications by Year in descending order

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Version: 2024-02-01

		126907	133252
124	4,127	33	59
papers	citations	h-index	g-index
136	136	136	4710
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	The proteolytic activity of tissue-plasminogen activator enhances NMDA receptor-mediated signaling. Nature Medicine, 2001, 7, 59-64.	30.7	678
2	Impaired Glymphatic Perfusion After Strokes Revealed by Contrast-Enhanced MRI. Stroke, 2014, 45, 3092-3096.	2.0	305
3	Mouse Model of In Situ Thromboembolic Stroke and Reperfusion. Stroke, 2007, 38, 2771-2778.	2.0	176
4	Potent Thrombolytic Effect of <i>N</i> -Acetylcysteine on Arterial Thrombi. Circulation, 2017, 136, 646-660.	1.6	112
5	Subarachnoid Hemorrhage Severely Impairs Brain Parenchymal Cerebrospinal Fluid Circulation in Nonhuman Primate. Stroke, 2017, 48, 2301-2305.	2.0	110
6	Hyperfibrinolysis increases blood–brain barrier permeability by a plasmin- and bradykinin-dependent mechanism. Blood, 2016, 128, 2423-2434.	1.4	104
7	Ultra-Sensitive Molecular MRI of Vascular Cell Adhesion Molecule-1 Reveals a Dynamic Inflammatory Penumbra After Strokes. Stroke, 2013, 44, 1988-1996.	2.0	92
8	The NR1 subunit of NMDA receptor regulates monocyte transmigration through the brain endothelial cell barrier. Journal of Neurochemistry, 2010, 113, 447-453.	3.9	79
9	Toward Safer Thrombolytic Agents in Stroke: Molecular Requirements for NMDA Receptor-Mediated Neurotoxicity. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1212-1221.	4.3	74
10	Anti-inflammatory treatments for stroke: from bench to bedside. Therapeutic Advances in Neurological Disorders, 2018, 11, 175628641878985.	3.5	74
11	Association of Sleep-Disordered Breathing With Alzheimer Disease Biomarkers in Community-Dwelling Older Adults. JAMA Neurology, 2020, 77, 716.	9.0	71
12	Glutamate Controls tPA Recycling by Astrocytes, Which in Turn Influences Glutamatergic Signals. Journal of Neuroscience, 2012, 32, 5186-5199.	3.6	67
13	Anti-NR1 N-terminal-domain vaccination unmasks the crucial action of tPA on NMDA-receptor-mediated toxicity and spatial memory. Journal of Cell Science, 2007, 120, 578-585.	2.0	66
14	Tissue-Type Plasminogen Activator Is a Regulator of Monocyte Diapedesis through the Brain Endothelial Barrier. Journal of Immunology, 2008, 181, 3567-3574.	0.8	65
15	Molecular magnetic resonance imaging of brainââ,¬â€œimmune interactions. Frontiers in Cellular Neuroscience, 2014, 8, 389.	3.7	65
16	Ultra-sensitive molecular MRI of cerebrovascular cell activation enables early detection of chronic central nervous system disorders. NeuroImage, 2012, 63, 760-770.	4.2	64
17	Antibodies Preventing the Interaction of Tissue-Type Plasminogen Activator With N-Methyl- <scp>d</scp> -Aspartate Receptors Reduce Stroke Damages and Extend the Therapeutic Window of Thrombolysis. Stroke, 2011, 42, 2315-2322.	2.0	63
18	Filling the gaps on stroke research: Focus on inflammation and immunity. Brain, Behavior, and Immunity, 2021, 91, 649-667.	4.1	61

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19	Unveiling an exceptional zymogen: the single-chain form of tPA is a selective activator of NMDA receptor-dependent signaling and neurotoxicity. Cell Death and Differentiation, 2012, 19, 1983-1991.	11.2	60
20	White matter hyperintensities across the adult lifespan: relation to age, $A\hat{l}^2$ load, and cognition. Alzheimer's Research and Therapy, 2020, 12, 127.	6.2	60
21	White matter hyperintensity topography in Alzheimer's disease and links to cognition. Alzheimer's and Dementia, 2022, 18, 422-433.	0.8	59
22	HLA-Class II Artificial Antigen Presenting Cells in CD4+ T Cell-Based Immunotherapy. Frontiers in Immunology, 2019, 10, 1081.	4.8	56
23	Molecular Magnetic Resonance Imaging of Endothelial Activation in the Central Nervous System. Theranostics, 2018, 8, 1195-1212.	10.0	55
24	Brain-released alarmins and stress response synergize in accelerating atherosclerosis progression after stroke. Science Translational Medicine, 2018, 10, .	12.4	54
25	The Ageâ€Well randomized controlled trial of the Meditâ€Ageing European project: Effect of meditation or foreign language training on brain and mental health in older adults. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2018, 4, 714-723.	3.7	53
26	The plasminogen activation system in neuroinflammation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 395-402.	3.8	52
27	HGF and MET: From Brain Development to Neurological Disorders. Frontiers in Cell and Developmental Biology, 2021, 9, 683609.	3.7	47
28	3D Transcranial Ultrasound Localization Microscopy in the Rat Brain With a Multiplexed Matrix Probe. IEEE Transactions on Biomedical Engineering, 2022, 69, 2132-2142.	4.2	47
29	Enriched housing reverses age-associated impairment of cognitive functions and tPA-dependent maturation of BDNF. Neurobiology of Learning and Memory, 2011, 96, 121-129.	1.9	46
30	Prediction of disease activity in models of multiple sclerosis by molecular magnetic resonance imaging of P-selectin. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6116-6121.	7.1	43
31	Tissue-type plasminogen activator controls neuronal death by raising surface dynamics of extrasynaptic NMDA receptors. Cell Death and Disease, 2016, 7, e2466-e2466.	6.3	42
32	Neuroendothelial NMDA receptors as therapeutic targets in experimental autoimmune encephalomyelitis. Brain, 2016, 139, 2406-2419.	7.6	40
33	Molecular magnetic resonance imaging discloses endothelial activation after transient ischaemic attack. Brain, 2017, 140, 146-157.	7.6	40
34	Autoimmune encephalitis mediated by B-cell response against N-methyl-d-aspartate receptor. Brain, 2020, 143, 2957-2972.	7.6	39
35	Efficacy of Alteplase in a Mouse Model of Acute Ischemic Stroke. Stroke, 2016, 47, 1312-1318.	2.0	36
36	Tissue Plasminogen Activator Expression Is Restricted to Subsets of Excitatory Pyramidal Glutamatergic Neurons. Molecular Neurobiology, 2016, 53, 5000-5012.	4.0	36

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37	Nonionotropic Action of Endothelial NMDA Receptors on Blood–Brain Barrier Permeability via Rho/ROCK-Mediated Phosphorylation of Myosin. Journal of Neuroscience, 2020, 40, 1778-1787.	3.6	36
38	Blood Biomarkers to Differentiate Ischemic and Hemorrhagic Strokes. Neurology, 2021, 96, e1928-e1939.	1.1	34
39	Immune Responses and Anti-inflammatory Strategies in a Clinically Relevant Model of Thromboembolic Ischemic Stroke with Reperfusion. Translational Stroke Research, 2020, 11, 481-495.	4.2	33
40	Early Ultrafast Ultrasound Imaging of Cerebral Perfusion correlates with Ischemic Stroke outcomes and responses to treatment in Mice. Theranostics, 2020, 10, 7480-7491.	10.0	33
41	Proteostasis During Cerebral Ischemia. Frontiers in Neuroscience, 2019, 13, 637.	2.8	30
42	Cross-sectional and longitudinal characterization of SCD patients recruited from the community versus from a memory clinic: subjective cognitive decline, psychoaffective factors, cognitive performances, and atrophy progression over time. Alzheimer's Research and Therapy, 2019, 11, 61.	6.2	30
43	Lack of secondary microthrombosis after thrombinâ€induced stroke in mice and nonâ€human primates. Journal of Thrombosis and Haemostasis, 2014, 12, 409-414.	3.8	27
44	GluN2D Subunit-Containing NMDA Receptors Control Tissue Plasminogen Activator-Mediated Spatial Memory. Journal of Neuroscience, 2012, 32, 12726-12734.	3.6	26
45	Unmasking Silent Endothelial Activation in the Cardiovascular System Using Molecular Magnetic Resonance Imaging. Theranostics, 2015, 5, 1187-1202.	10.0	26
46	Thrombolytic strategies for ischemic stroke in the thrombectomy era. Journal of Thrombosis and Haemostasis, 2021, 19, 1618-1628.	3.8	25
47	Longitudinal Changes in Hippocampal Network Connectivity in Alzheimer's Disease. Annals of Neurology, 2021, 90, 391-406.	5.3	25
48	Engineered extracellular vesicles as brain therapeutics. Journal of Controlled Release, 2021, 338, 472-485.	9.9	25
49	Reduced spinal cord parenchymal cerebrospinal fluid circulation in experimental autoimmune encephalomyelitis. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1258-1265.	4.3	23
50	Circulating tPA contributes to neurovascular coupling by a mechanism involving the endothelial NMDA receptors. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2038-2054.	4.3	23
51	Pharmacological Activation/Inhibition of the Cannabinoid System Affects Alcohol Withdrawal-Induced Neuronal Hypersensitivity to Excitotoxic Insults. PLoS ONE, 2011, 6, e23690.	2.5	23
52	Molecular requirements for safer generation of thrombolytics by bioengineering the tissue-type plasminogen activator AÂchain. Journal of Thrombosis and Haemostasis, 2013, 11, 539-546.	3.8	22
53	In vivo ultrasound-activated delivery of recombinant tissue plasminogen activator from the cavity of sub-micrometric capsules. Journal of Controlled Release, 2019, 308, 162-171.	9.9	21
54	Glutamate controls vessel-associated migration of GABA interneurons from the pial migratory route via NMDA receptors and endothelial protease activation. Cellular and Molecular Life Sciences, 2020, 77, 1959-1986.	5.4	21

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55	Tissue-Type Plasminogen Activator Controlled Corticogenesis Through a Mechanism Dependent of NMDA Receptors Expressed on Radial Glial Cells. Cerebral Cortex, 2019, 29, 2482-2498.	2.9	19
56	New Approaches in Nanomedicine for Ischemic Stroke. Pharmaceutics, 2021, 13, 757.	4.5	19
57	Alcohol exposure–induced neurovascular inflammatory priming impacts ischemic stroke and is linked with brain perivascular macrophages. JCI Insight, 2020, 5, .	5.0	19
58	Megalencephalic leukoencephalopathy with subcortical cysts is a developmental disorder of the gliovascular unit. ELife, 2021, 10 , .	6.0	19
59	Cranioplasty Reverses Dysfunction of the Solutes Distribution in the Brain Parenchyma After Decompressive Craniectomy. Neurosurgery, 2020, 87, 1064-1069.	1.1	17
60	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. Frontiers in Aging Neuroscience, 2021, 13, 623751.	3.4	17
61	A non-human primate model of stroke reproducing endovascular thrombectomy and allowing long-term imaging and neurological read-outs. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 745-760.	4.3	16
62	Fucoidan-functionalized polysaccharide submicroparticles loaded with alteplase for efficient targeted thrombolytic therapy. Biomaterials, 2021, 277, 121102.	11.4	16
63	EZH2 inhibition reduces cartilage loss and functional impairment related to osteoarthritis. Scientific Reports, 2020, 10, 19577.	3.3	15
64	Roles of the tissue-type plasminogen activator in immune response. Cellular Immunology, 2022, 371, 104451.	3.0	15
65	Vascular Tissue-Type Plasminogen Activator Promotes Intracranial Aneurysm Formation. Stroke, 2017, 48, 2574-2582.	2.0	14
66	Thrombolysis by PLAT/tPA increases serum free IGF1 leading to a decrease of deleterious autophagy following brain ischemia. Autophagy, 2022, 18, 1297-1317.	9.1	14
67	Delayed Cerebral Ischemia After Subarachnoid Hemorrhage: Is There a Relevant Experimental Model? A Systematic Review of Preclinical Literature. Frontiers in Cardiovascular Medicine, 2021, 8, 752769.	2.4	14
68	Distant Space Processing is Controlled by tPA-dependent NMDA Receptor Signaling in the Entorhinal Cortex. Cerebral Cortex, 2016, 27, 4783-4796.	2.9	12
69	Post-synaptic Release of the Neuronal Tissue-Type Plasminogen Activator (tPA). Frontiers in Cellular Neuroscience, 2019, 13, 164.	3.7	12
70	PI3KC2β inactivation stabilizes VE adherin junctions and preserves vascular integrity. EMBO Reports, 2021, 22, e51299.	4.5	12
71	Molecular Magnetic Resonance Imaging of Vascular Inflammation After Recanalization in a Rat Ischemic Stroke Model. Stroke, 2021, 52, e788-e791.	2.0	12
72	Impact of Alcohol Consumption on the Outcome of Ischemic Stroke and Thrombolysis. Stroke, 2015, 46, 1641-1650.	2.0	11

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73	Neonatal cerebral hypoxia-ischemia in mice triggers age-dependent vascular effects and disabilities in adults; implication of tissue plasminogen activator (tPA). Experimental Neurology, 2020, 323, 113087.	4.1	10
74	PKCÎ-positive GABAergic neurons in the central amygdala exhibit tissue-type plasminogen activator: role in the control of anxiety. Molecular Psychiatry, 2022, 27, 2197-2205.	7.9	10
75	Role of Cardiovascular Risk Factors on the Association Between Physical Activity and Brain Integrity Markers in Older Adults. Neurology, 2022, 98, .	1.1	10
76	Plasminogen Activator Inhibitor-1 (PAI-1) deficiency predisposes to depression and resistance to treatments. Acta Neuropathologica Communications, 2019, 7, 153.	5.2	9
77	Ultrasensitive molecular imaging of intestinal mucosal inflammation using leukocyte-mimicking particles targeted to MAdCAM-1 in mice. Science Translational Medicine, 2020, 12, .	12.4	9
78	Subjective cognitive decline: opposite links to neurodegeneration across the Alzheimer's continuum. Brain Communications, 2021, 3, fcab199.	3.3	9
79	Role of inflammation in alcohol-related brain abnormalities: a translational study. Brain Communications, 2021, 3, fcab154.	3.3	9
80	Fast Stent Retrieval Improves Recanalization Rates of Thrombectomy: Experimental Study on Different Thrombi. American Journal of Neuroradiology, 2020, 41, 1049-1053.	2.4	8
81	Two-Chains Tissue Plasminogen Activator Unifies Met and NMDA Receptor Signalling to Control Neuronal Survival. International Journal of Molecular Sciences, 2021, 22, 13483.	4.1	8
82	Validation of a stroke model in rat compatible with rt-PA-induced thrombolysis: new hope for successful translation to the clinic. Scientific Reports, 2020, 10, 12191.	3.3	7
83	Single- and two- chain tissue type plasminogen activator treatments differentially influence cerebral recovery after stroke. Experimental Neurology, 2021, 338, 113606.	4.1	7
84	Association of quality of life with structural, functional and molecular brain imaging in community-dwelling older adults. NeuroImage, 2021, 231, 117819.	4.2	7
85	Neuroserpin Is Strongly Expressed in the Developing and Adult Mouse Neocortex but Its Absence Does Not Perturb Cortical Lamination and Synaptic Proteome. Frontiers in Neuroanatomy, 2021, 15, 627896.	1.7	6
86	Bumetanide lowers acute hydrocephalus in a rat model of subarachnoid hemorrhage. Acta Neurochirurgica, 2022, 164, 499-505.	1.7	6
87	Tracking the immune response by MRI using biodegradable and ultrasensitive microprobes. Science Advances, 2022, 8, .	10.3	6
88	Longitudinal Molecular Magnetic Resonance Imaging of Endothelial Activation after Severe Traumatic Brain Injury. Journal of Clinical Medicine, 2019, 8, 1134.	2.4	5
89	Tissue plasminogen activator worsens experimental autoimmune encephalomyelitis by complementary actions on lymphoid and myeloid cell responses. Journal of Neuroinflammation, 2021, 18, 52.	7.2	5
90	Preventing the Long-term Effects of General Anesthesia on the Developing Brain: How Translational Research can Contribute. Neuroscience, 2021, 461, 172-179.	2.3	5

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91	Sex-specificities in anxiety and depressive symptoms across the lifespan and their links with multimodal neuroimaging. Journal of Affective Disorders, 2022, 296, 593-602.	4.1	5
92	tPA-NMDAR Signaling Blockade Reduces the Incidence of Intracerebral Aneurysms. Translational Stroke Research, 2022, 13, 1005-1016.	4.2	5
93	An overview of the perspectives on experimental models and new therapeutic targets in giant cell arteritis. Autoimmunity Reviews, 2020, 19, 102636.	5.8	4
94	Rate of Rebleed and Retreatment of Previously Treated Intracranial Aneurysms. World Neurosurgery, 2021, 148, e650-e657.	1.3	4
95	Combination treatment with U0126 and rt-PA prevents adverse effects of the delayed rt-PA treatment after acute ischemic stroke. Scientific Reports, 2021, 11, 11993.	3.3	4
96	Harmonisation and Between-Country Differences of the Lifetime of Experiences Questionnaire in Older Adults. Frontiers in Aging Neuroscience, 2021, 13, 740005.	3.4	4
97	Environmental enrichment alleviates the deleterious effects of stress in experimental autoimmune encephalomyelitis. Multiple Sclerosis Journal - Experimental, Translational and Clinical, 2020, 6, 205521732095980.	1.0	3
98	New Opportunities for Diagnosis and Prognosis of Stroke: The Benefits of Across Border Approaches. Hamostaseologie, 2021, 41, 022-024.	1.9	3
99	Retreatment of previously treated intracranial aneurysm: Procedural complications and risk factors for complications. Neurochirurgie, 2021, 68, 150-150.	1.2	3
100	Factor XII protects neurons from apoptosis by epidermal and hepatocyte growth factor receptorâ€dependent mechanisms. Journal of Thrombosis and Haemostasis, 2021, 19, 2235-2247.	3.8	2
101	Men and women show partly distinct effects of physical activity on brain integrity. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2022, 14, e12302.	2.4	2
102	Betweenâ€country harmonization and differences of the Lifetime of Experiences Questionnaire (LEQ) for lifespan complex mental activity assessment. Alzheimer's and Dementia, 2020, 16, e045240.	0.8	1
103	Post-acute delivery of $\hat{l}\pm 5$ -GABAA antagonist, S 44819, improves functional recovery in juvenile rats following stroke. Experimental Neurology, 2021, 347, 113881.	4.1	1
104	PAI-1 production by reactive astrocytes drives tissue dysfibrinolysis in multiple sclerosis models. Cellular and Molecular Life Sciences, 2022, 79, .	5.4	1
105	ICâ€Pâ€114: OBSTRUCTIVE SLEEP APNEA SEVERITY AND BRAIN INTEGRITY IN AGEING: A MULTIMODAL NEUROIMAGING STUDY. Alzheimer's and Dementia, 2019, 15, P97.	0.8	O
106	ICâ€Pâ€125: IMPACT OF THE RECRUITMENT SETTING ON THE CHARACTERISTICS OF PATIENTS WITH SUBJECTIVE COGNITIVE DECLINE. Alzheimer's and Dementia, 2019, 15, P103.	0.8	0
107	ICâ€Pâ€082: ASSOCIATION OF PERCEIVED MEMORY DECLINE WITH MULTIMODAL NEUROIMAGING AT DIFFEREN STAGES OF ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2019, 15, P73.	T _{0.8}	O
108	Distinct relationships of selfâ€reported subjective memory decline to neurodegeneration across the Alzheimer's clinical continuum. Alzheimer's and Dementia, 2020, 16, e040780.	0.8	0

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109	Changes in anterior temporal and posterior medial hippocampal network connectivity in Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e042935.	0.8	O
110	Multimodal neuroimaging correlates of NREM and REM sleep: EEG spectral power in aging. Alzheimer's and Dementia, 2020, 16, e044716.	0.8	0
111	White matter hyperintensities in Alzheimer's disease: Topography of lesions and association with cognition. Alzheimer's and Dementia, 2020, 16, e045371.	0.8	0
112	White matter hyperintensities across the adult life span: Links with age, amyloid load and cognition. Alzheimer's and Dementia, 2020, 16, e045449.	0.8	0
113	Making Visible the Invisible. Neuroscience, 2021, 474, 1-2.	2.3	0
114	Cranioplasty Reverses Dysfunction of the Solutes Distribution in the Brain Parenchyma After Decompressive Craniectomy. Neurosurgery, 2021, 89, S41-S41.	1.1	0
115	An updated model of hydrocephalus in sheep to evaluate the performance of a device for ambulatory wireless monitoring of cerebral pressure through shunts. Neurochirurgie, 2021, , .	1.2	0
116	Vingt mille lieues sous un crâne. , 2021, N° 135, 26-35.		0
117	À quoi servent les «Âruminations» nocturnes de la moucheÂ?. , 2021, Nº 131, 12-14.		0
118	In Mice and Humans, Brain Vascular Barrier Homeostasis and Contractility Are Acquired Postnatally. SSRN Electronic Journal, 0, , .	0.4	0
119	Vingt mille lieues sous un crâne. Pourlascience Fr, 2021, N° 528 - octobre, 60-69.	0.0	0
120	Men and women show partly distinct effects of physical activity on markers of brain integrity. Alzheimer's and Dementia, 2021, 17, .	0.8	0
121	The association between physical activity and brain integrity is partly mediated by cardiovascular mechanisms. Alzheimer's and Dementia, 2021, 17, .	0.8	0
122	Informantâ€reported subjective cognitive decline is specifically relevant in MCI patients: Association with cognition, amyloid deposition and neurodegeneration. Alzheimer's and Dementia, 2021, 17, .	0.8	0
123	Depressive symptoms in cognitively unimpaired older adults are associated with decreased structural and functional integrity in the limbic network. Alzheimer's and Dementia, 2021, 17, .	0.8	0
124	Subclinical but high level of glycemia and platelet activity are associated with decreased structural and functional integrity in Alzheimer's diseaseâ€sensitive brain regions. Alzheimer's and Dementia, 2021, 17, .	0.8	0