

Roxana Carare

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

5,619
citations

33
h-index

74
g-index

100
ext. papers

6,935
ext. citations

6.8
avg, IF

5.76
L-index

#	Paper	IF	Citations
93	Clearance systems in the brain-implications for Alzheimer disease. <i>Nature Reviews Neurology</i> , 2015 , 11, 457-70	15	759
92	Perivascular drainage of amyloid-beta peptides from the brain and its failure in cerebral amyloid angiopathy and Alzheimer's disease. <i>Brain Pathology</i> , 2008 , 18, 253-66	6	439
91	Solutes, but not cells, drain from the brain parenchyma along basement membranes of capillaries and arteries: significance for cerebral amyloid angiopathy and neuroimmunology. <i>Neuropathology and Applied Neurobiology</i> , 2008 , 34, 131-44	5.2	410
90	Lymphatic drainage of the brain and the pathophysiology of neurological disease. <i>Acta Neuropathologica</i> , 2009 , 117, 1-14	14.3	367
89	Vascular dysfunction-The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019 , 15, 158-167	1.2	265
88	Perivascular drainage of solutes is impaired in the ageing mouse brain and in the presence of cerebral amyloid angiopathy. <i>Acta Neuropathologica</i> , 2011 , 121, 431-43	14.3	232
87	Lymphatic Clearance of the Brain: Perivascular, Paravascular and Significance for Neurodegenerative Diseases. <i>Cellular and Molecular Neurobiology</i> , 2016 , 36, 181-94	4.6	218
86	Vascular, glial, and lymphatic immune gateways of the central nervous system. <i>Acta Neuropathologica</i> , 2016 , 132, 317-38	14.3	195
85	Vascular basement membranes as pathways for the passage of fluid into and out of the brain. <i>Acta Neuropathologica</i> , 2016 , 131, 725-36	14.3	182
84	Review: cerebral amyloid angiopathy, prion angiopathy, CADASIL and the spectrum of protein elimination failure angiopathies (PEFA) in neurodegenerative disease with a focus on therapy. <i>Neuropathology and Applied Neurobiology</i> , 2013 , 39, 593-611	5.2	147
83	Disruption of arterial perivascular drainage of amyloid- β from the brains of mice expressing the human APOE ϵ allele. <i>PLoS ONE</i> , 2012 , 7, e41636	3.7	122
82	Convective influx/lymphatic system: tracers injected into the CSF enter and leave the brain along separate periarterial basement membrane pathways. <i>Acta Neuropathologica</i> , 2018 , 136, 139-152	14.3	121
81	The increasing impact of cerebral amyloid angiopathy: essential new insights for clinical practice. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017 , 88, 982-994	5.5	109
80	Cerebrovascular Smooth Muscle Cells as the Drivers of Intramural Periarterial Drainage of the Brain. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 1	5.3	107
79	White matter changes in dementia: role of impaired drainage of interstitial fluid. <i>Brain Pathology</i> , 2015 , 25, 63-78	6	105
78	Failure of perivascular drainage of β amyloid in cerebral amyloid angiopathy. <i>Brain Pathology</i> , 2014 , 24, 396-403	6	99
77	Cerebral amyloid angiopathy in the aetiology and immunotherapy of Alzheimer disease. <i>Alzheimer's Research and Therapy</i> , 2009 , 1, 6	9	97

76	Regional differences in the morphological and functional effects of aging on cerebral basement membranes and perivascular drainage of amyloid- β from the mouse brain. <i>Aging Cell</i> , 2013 , 12, 224-36	9.9	96
75	Deposition of amyloid β in the walls of human leptomenigeal arteries in relation to perivascular drainage pathways in cerebral amyloid angiopathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 1037-46	6.9	94
74	The meninges as barriers and facilitators for the movement of fluid, cells and pathogens related to the rodent and human CNS. <i>Acta Neuropathologica</i> , 2018 , 135, 363-385	14.3	94
73	Cerebrospinal Fluid Clearance in Alzheimer Disease Measured with Dynamic PET. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1471-1476	8.9	85
72	The Cerebrovascular Basement Membrane: Role in the Clearance of β Amyloid and Cerebral Amyloid Angiopathy. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 251	5.3	76
71	Afferent and efferent immunological pathways of the brain. Anatomy, function and failure. <i>Brain, Behavior, and Immunity</i> , 2014 , 36, 9-14	16.6	66
70	Loss of clusterin shifts amyloid deposition to the cerebrovasculature via disruption of perivascular drainage pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E6962-E6971	11.5	66
69	Phosphodiesterase III inhibitor promotes drainage of cerebrovascular β amyloid. <i>Annals of Clinical and Translational Neurology</i> , 2014 , 1, 519-33	5.3	66
68	Neurofilaments: neurobiological foundations for biomarker applications. <i>Brain</i> , 2020 , 143, 1975-1998	11.2	56
67	Arterial Pulsations cannot Drive Intramural Periarterial Drainage: Significance for β Drainage. <i>Frontiers in Neuroscience</i> , 2017 , 11, 475	5.1	45
66	Systems proteomic analysis reveals that clusterin and tissue inhibitor of metalloproteinases 3 increase in leptomenigeal arteries affected by cerebral amyloid angiopathy. <i>Neuropathology and Applied Neurobiology</i> , 2017 , 43, 492-504	5.2	41
65	Prenatal high-fat diet alters the cerebrovasculature and clearance of β amyloid in adult offspring. <i>Journal of Pathology</i> , 2015 , 235, 619-31	9.4	38
64	Inhibition of Aquaporin-4 Improves the Outcome of Ischaemic Stroke and Modulates Brain Paravascular Drainage Pathways. <i>International Journal of Molecular Sciences</i> , 2017 , 19,	6.3	35
63	Intracerebral immune complex formation induces inflammation in the brain that depends on Fc receptor interaction. <i>Acta Neuropathologica</i> , 2012 , 124, 479-90	14.3	33
62	Dispersion in porous media in oscillatory flow between flat plates: applications to intrathecal, periarterial and paraarterial solute transport in the central nervous system. <i>Fluids and Barriers of the CNS</i> , 2019 , 16, 13	7	32
61	Does the difference between PART and Alzheimer's disease lie in the age-related changes in cerebral arteries that trigger the accumulation of A β and propagation of tau?. <i>Acta Neuropathologica</i> , 2015 , 129, 763-6	14.3	32
60	Peristalsis with Oscillating Flow Resistance: A Mechanism for Periarterial Clearance of Amyloid Beta from the Brain. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1553-65	4.7	30
59	Interplay between age, cerebral small vessel disease, parenchymal amyloid- β and tau pathology: longitudinal studies in hypertensive stroke-prone rats. <i>Journal of Alzheimer's Disease</i> , 2014 , 42 Suppl 3, S205-15	4.3	29

58	Stroke-induced opposite and age-dependent changes of vessel-associated markers in co-morbid transgenic mice with Alzheimer-like alterations. <i>Experimental Neurology</i> , 2013 , 250, 270-81	5.7	29
57	Hypertension drives parenchymal β amyloid accumulation in the brain parenchyma. <i>Annals of Clinical and Translational Neurology</i> , 2014 , 1, 124-9	5.3	28
56	Quantification of molecular interactions between ApoE, amyloid-beta (A β) and laminin: Relevance to accumulation of A β in Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 1047-53	6.9	26
55	A Simulation Model of Periarterial Clearance of Amyloid- β from the Brain. <i>Frontiers in Aging Neuroscience</i> , 2016 , 8, 18	5.3	25
54	Hypercholesterolemia induced cerebral small vessel disease. <i>PLoS ONE</i> , 2017 , 12, e0182822	3.7	24
53	Pulsations with reflected boundary waves: a hydrodynamic reverse transport mechanism for perivascular drainage in the brain. <i>Journal of Mathematical Biology</i> , 2016 , 73, 469-90	2	23
52	Brain pharmacology of intrathecal antisense oligonucleotides revealed through multimodal imaging. <i>JCI Insight</i> , 2019 , 4,	9.9	23
51	Clearance of interstitial fluid (ISF) and CSF (CLIC) group-part of Vascular Professional Interest Area (PIA): Cerebrovascular disease and the failure of elimination of Amyloid- β from the brain and retina with age and Alzheimer's disease-Opportunities for Therapy. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020 , 12, e12053	5.2	22
50	CSF Neurofilament Light Chain Levels in Primary Progressive MS: Signs of Axonal Neurodegeneration. <i>Frontiers in Neurology</i> , 2018 , 9, 1037	4.1	19
49	The fine anatomy of the perivascular compartment in the human brain: relevance to dilated perivascular spaces in cerebral amyloid angiopathy. <i>Neuropathology and Applied Neurobiology</i> , 2019 , 45, 305-308	5.2	18
48	Small vessel disease pathological changes in neurodegenerative and vascular dementias concomitant with autonomic dysfunction. <i>Brain Pathology</i> , 2020 , 30, 191-202	6	18
47	Increased A β pathology in aged Tg2576 mice born to mothers fed a high fat diet. <i>Scientific Reports</i> , 2016 , 6, 21981	4.9	17
46	The perivascular pathways for influx of cerebrospinal fluid are most efficient in the midbrain. <i>Clinical Science</i> , 2017 , 131, 2745-2752	6.5	15
45	The association between hypertensive arteriopathy and cerebral amyloid angiopathy in spontaneously hypertensive stroke-prone rats. <i>Brain Pathology</i> , 2018 , 28, 844-859	6	15
44	Invited Review: The spectrum of age-related small vessel diseases: potential overlap and interactions of amyloid and nonamyloid vasculopathies. <i>Neuropathology and Applied Neurobiology</i> , 2020 , 46, 219-239	5.2	14
43	Vasomotion Drives Periarterial Drainage of A β from the Brain. <i>Neuron</i> , 2020 , 105, 400-401	13.9	13
42	Are you also what your mother eats? Distinct proteomic portrait as a result of maternal high-fat diet in the cerebral cortex of the adult mouse. <i>International Journal of Obesity</i> , 2015 , 39, 1325-8	5.5	13
41	Are the effects of APOE ϵ 4 on cognitive function in nonclinical populations age- and gender-dependent?. <i>Neurodegenerative Disease Management</i> , 2015 , 5, 37-48	2.8	12

40	A control mechanism for intra-mural peri-arterial drainage via astrocytes: How neuronal activity could improve waste clearance from the brain. <i>PLoS ONE</i> , 2018 , 13, e0205276	3.7	12
39	3D Reconstruction of the Neurovascular Unit Reveals Differential Loss of Cholinergic Innervation in the Cortex and Hippocampus of the Adult Mouse Brain. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 172	5.3	11
38	Intravital imaging in spontaneously hypertensive stroke-prone rats-a pilot study. <i>Experimental & Translational Stroke Medicine</i> , 2014 , 6, 1		11
37	MK886 reduces cerebral amyloid angiopathy severity in TgCRND8 mice. <i>Neurodegenerative Diseases</i> , 2014 , 13, 17-23	2.3	11
36	Novel antibodies detect additional β synuclein pathology in synucleinopathies: potential development for immunotherapy. <i>Alzheimer's Research and Therapy</i> , 2020 , 12, 159	9	11
35	Military-related risk factors for dementia. <i>Alzheimer's and Dementia</i> , 2018 , 14, 1651-1662	1.2	10
34	Amyloid and tau in the brain in sporadic Alzheimer's disease: defining the chicken and the egg. <i>Acta Neuropathologica</i> , 2014 , 127, 617-8	14.3	9
33	Spontaneous ARIA-like Events in Cerebral Amyloid Angiopathy-Related Inflammation: A Multicenter Prospective Longitudinal Cohort Study. <i>Neurology</i> , 2021 , 97, e1809-e1822	6.5	9
32	Knockout of apolipoprotein A-I decreases parenchymal and vascular β amyloid pathology in the Tg2576 mouse model of Alzheimer's disease. <i>Neuropathology and Applied Neurobiology</i> , 2019 , 45, 698-714	5.2	8
31	The Diverse Roles of TIMP-3: Insights into Degenerative Diseases of the Senescent Retina and Brain. <i>Cells</i> , 2019 , 9,	7.9	8
30	Amyloid- β and β Synuclein Immunotherapy: From Experimental Studies to Clinical Trials. <i>Frontiers in Neuroscience</i> , 2021 , 15, 733857	5.1	8
29	The Pattern of AQP4 Expression in the Ageing Human Brain and in Cerebral Amyloid Angiopathy. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
28	Solving an Old Dogma: Is it an Arteriole or a Venule?. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 289	5.3	7
27	A unique variation of the sciatic nerve. <i>Clinical Anatomy</i> , 2008 , 21, 800-1	2.5	7
26	Peri-arterial pathways for clearance of β Synuclein and tau from the brain: Implications for the pathogenesis of dementias and for immunotherapy. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020 , 12, e12070	5.2	7
25	The structure of the perivascular compartment in the old canine brain: a case study. <i>Clinical Science</i> , 2017 , 131, 2737-2744	6.5	6
24	Hemisphere Asymmetry of Response to Pharmacologic Treatment in an Alzheimer's Disease Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2016 , 51, 333-8	4.3	6
23	Oral Carriage of Harboring the Gene Relates to an Increased Incidence of Cerebral Microbleeds. <i>Stroke</i> , 2020 , 51, 3632-3639	6.7	5

22	Impact of N-Acetylcysteine on cerebral amyloid- β plaques and kidney damage in spontaneously hypertensive stroke-prone rats. <i>Journal of Alzheimer's Disease</i> , 2014 , 42 Suppl 3, S305-13	4.3	5
21	Demonstrating a reduced capacity for removal of fluid from cerebral white matter and hypoxia in areas of white matter hyperintensity associated with age and dementia. <i>Acta Neuropathologica Communications</i> , 2020 , 8, 131	7.3	5
20	Loss of cholinergic innervation differentially affects eNOS-mediated blood flow, drainage of A β and cerebral amyloid angiopathy in the cortex and hippocampus of adult mice. <i>Acta Neuropathologica Communications</i> , 2021 , 9, 12	7.3	5
19	Quantitative Assessment of Cerebral Basement Membranes Using Electron Microscopy. <i>Methods in Molecular Biology</i> , 2017 , 1559, 367-375	1.4	4
18	Vascular α 1 Adrenergic Receptors as a Potential Therapeutic Target for IPAD in Alzheimer's Disease. <i>Pharmaceuticals</i> , 2020 , 13,	5.2	4
17	Decreased CSF clearance and increased brain amyloid in Alzheimer's disease.. <i>Fluids and Barriers of the CNS</i> , 2022 , 19, 21	7	4
16	Physiology and Clinical Relevance of Enlarged Perivascular Spaces in the Aging Brain. <i>Neurology</i> , 2021 ,	6.5	3
15	The Brain-Nose Interface: A Potential Cerebrospinal Fluid Clearance Site in Humans.. <i>Frontiers in Physiology</i> , 2021 , 12, 769948	4.6	3
14	Investigating the Lymphatic Drainage of the Brain: Essential Skills and Tools. <i>Methods in Molecular Biology</i> , 2017 , 1559, 343-365	1.4	2
13	Quantifying cerebrospinal fluid dynamics: A review of human neuroimaging contributions to CSF physiology and neurodegenerative disease. <i>Neurobiology of Disease</i> , 2022 , 170, 105776	7.5	2
12	Vital Functions Contribute to the Spread of Extracellular Fluids in the Brain: Comparison Between Life and Death. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 15	5.3	1
11	Pathophysiology of Lymphatic Drainage of the Central Nervous System 2016 , 479-501		1
10	Lymphatic Drainage of the CNS and Its Role in Neuroinflammation and Neurodegenerative Disease 2018 , 601-617		1
9	Blood vessel feature description for detection of Alzheimers disease 2014 ,		1
8	Impaired Glymphatic Function and Pulsation Alterations in a Mouse Model of Vascular Cognitive Impairment.. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 788519	5.3	1
7	Immunisation with UB-312 in the Thy1SNCA mouse prevents motor performance deficits and oligomeric β synuclein accumulation in the brain and gut. <i>Acta Neuropathologica</i> , 2021 , 1	14.3	1
6	The β dystrobrevins play a key role in maintaining the structure and function of the extracellular matrix-significance for protein elimination failure arteriopathies. <i>Acta Neuropathologica Communications</i> , 2021 , 9, 171	7.3	1
5	Pulsation changes link to impaired glymphatic function in a mouse model of vascular cognitive impairment		1

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| 4 | TUBE Project: Transport-Derived Ultrafines and the Brain Effects.. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 19, | 4.6 | 1 |
| 3 | UK consensus on pre-clinical vascular cognitive impairment functional outcomes assessment: Questionnaire and workshop proceedings. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 1402-1414 ^o | 7.3 | 1 |
| 2 | Why does ARIA-E appear bright? A quantitative model linking brain tissue composition and T2 FLAIR hyperintensities. <i>Alzheimer's and Dementia</i> , 2020 , 16, e046115 | 1.2 | |
| 1 | A Cerebral Clearance Pathway for Amyloid β <i>FASEB Journal</i> , 2015 , 29, 705.6 | 0.9 | |