

# Roxana Carare

## List of Publications by Year in Descending Order

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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	Decreased CSF clearance and increased brain amyloid in Alzheimer's disease.. <i>Fluids and Barriers of the CNS</i> , <b>2022</b> , 19, 21	7	4
92	Quantifying cerebrospinal fluid dynamics: A review of human neuroimaging contributions to CSF physiology and neurodegenerative disease. <i>Neurobiology of Disease</i> , <b>2022</b> , 170, 105776	7.5	2
91	Impaired Glymphatic Function and Pulsation Alterations in a Mouse Model of Vascular Cognitive Impairment.. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 788519	5.3	1
90	Immunisation with UB-312 in the Thy1SNCA mouse prevents motor performance deficits and oligomeric $\beta$ synuclein accumulation in the brain and gut. <i>Acta Neuropathologica</i> , <b>2021</b> , 1	14.3	1
89	Physiology and Clinical Relevance of Enlarged Perivascular Spaces in the Aging Brain. <i>Neurology</i> , <b>2021</b> ,	6.5	3
88	The Brain-Nose Interface: A Potential Cerebrospinal Fluid Clearance Site in Humans.. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 769948	4.6	3
87	The $\beta$ -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> , <b>2021</b> , 9, 171	7.3	1
86	Loss of cholinergic innervation differentially affects eNOS-mediated blood flow, drainage of A $\beta$ and cerebral amyloid angiopathy in the cortex and hippocampus of adult mice. <i>Acta Neuropathologica Communications</i> , <b>2021</b> , 9, 12	7.3	5
85	Spontaneous ARIA-like Events in Cerebral Amyloid Angiopathy-Related Inflammation: A Multicenter Prospective Longitudinal Cohort Study. <i>Neurology</i> , <b>2021</b> , 97, e1809-e1822	6.5	9
84	Amyloid- $\beta$ and $\beta$ synuclein Immunotherapy: From Experimental Studies to Clinical Trials. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 733857	5.1	8
83	TUBE Project: Transport-Derived Ultrafines and the Brain Effects.. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 19,	4.6	1
82	Why does ARIA-E appear bright? A quantitative model linking brain tissue composition and T2 FLAIR hyperintensities. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e046115	1.2	
81	Oral Carriage of Harboring the Gene Relates to an Increased Incidence of Cerebral Microbleeds. <i>Stroke</i> , <b>2020</b> , 51, 3632-3639	6.7	5
80	Neurofilaments: neurobiological foundations for biomarker applications. <i>Brain</i> , <b>2020</b> , 143, 1975-1998	11.2	56
79	UK consensus on pre-clinical vascular cognitive impairment functional outcomes assessment: Questionnaire and workshop proceedings. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 1402-1414 <sup>0</sup>	7.3	1414 <sup>0</sup>
78	Vital Functions Contribute to the Spread of Extracellular Fluids in the Brain: Comparison Between Life and Death. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 15	5.3	1
77	The Pattern of AQP4 Expression in the Ageing Human Brain and in Cerebral Amyloid Angiopathy. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	7

76	Vasomotion Drives Periarterial Drainage of Aβ from the Brain. <i>Neuron</i> , <b>2020</b> , 105, 400-401	13.9	13
75	Vascular αA Adrenergic Receptors as a Potential Therapeutic Target for IPAD in Alzheimer's Disease. <i>Pharmaceuticals</i> , <b>2020</b> , 13,	5.2	4
74	Novel antibodies detect additional βsynuclein pathology in synucleinopathies: potential development for immunotherapy. <i>Alzheimer's Research and Therapy</i> , <b>2020</b> , 12, 159	9	11
73	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> , <b>2020</b> , 16, 1007-1017	5.2	22
72	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> , <b>2020</b> , 8, 131	7.3	5
71	Peri-arterial pathways for clearance of βsynuclein 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> , <b>2020</b> , 12, e12070	5.2	7
70	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> , <b>2020</b> , 46, 219-239	5.2	14
69	Small vessel disease pathological changes in neurodegenerative and vascular dementias concomitant with autonomic dysfunction. <i>Brain Pathology</i> , <b>2020</b> , 30, 191-202	6	18
68	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> , <b>2019</b> , 16, 13	7	32
67	Knockout of apolipoprotein A-I decreases parenchymal and vascular βamyloid pathology in the Tg2576 mouse model of Alzheimer's disease. <i>Neuropathology and Applied Neurobiology</i> , <b>2019</b> , 45, 698-714	5.2	8
66	Cerebrovascular Smooth Muscle Cells as the Drivers of Intramural Periarterial Drainage of the Brain. <i>Frontiers in Aging Neuroscience</i> , <b>2019</b> , 11, 1	5.3	107
65	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> , <b>2019</b> , 11, 172	5.3	11
64	Solving an Old Dogma: Is it an Arteriole or a Venule?. <i>Frontiers in Aging Neuroscience</i> , <b>2019</b> , 11, 289	5.3	7
63	Brain pharmacology of intrathecal antisense oligonucleotides revealed through multimodal imaging. <i>JCI Insight</i> , <b>2019</b> , 4,	9.9	23
62	The Diverse Roles of TIMP-3: Insights into Degenerative Diseases of the Senescent Retina and Brain. <i>Cells</i> , <b>2019</b> , 9,	7.9	8
61	Vascular dysfunction-The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2019</b> , 15, 158-167	1.2	265
60	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> , <b>2019</b> , 45, 305-308	5.2	18
59	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> , <b>2018</b> , 135, 363-385	14.3	94

58	Lymphatic Drainage of the CNS and Its Role in Neuroinflammation and Neurodegenerative Disease <b>2018</b> , 601-617		1
57	The association between hypertensive arteriopathy and cerebral amyloid angiopathy in spontaneously hypertensive stroke-prone rats. <i>Brain Pathology</i> , <b>2018</b> , 28, 844-859	6	15
56	Military-related risk factors for dementia. <i>Alzheimer's and Dementia</i> , <b>2018</b> , 14, 1651-1662	1.2	10
55	CSF Neurofilament Light Chain Levels in Primary Progressive MS: Signs of Axonal Neurodegeneration. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 1037	4.1	19
54	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> , <b>2018</b> , 13, e0205276	3.7	12
53	Convective influx/glymphatic system: tracers injected into the CSF enter and leave the brain along separate periarterial basement membrane pathways. <i>Acta Neuropathologica</i> , <b>2018</b> , 136, 139-152	14.3	121
52	Investigating the Lymphatic Drainage of the Brain: Essential Skills and Tools. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1559, 343-365	1.4	2
51	Quantitative Assessment of Cerebral Basement Membranes Using Electron Microscopy. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1559, 367-375	1.4	4
50	Cerebrospinal Fluid Clearance in Alzheimer Disease Measured with Dynamic PET. <i>Journal of Nuclear Medicine</i> , <b>2017</b> , 58, 1471-1476	8.9	85
49	The structure of the perivascular compartment in the old canine brain: a case study. <i>Clinical Science</i> , <b>2017</b> , 131, 2737-2744	6.5	6
48	The perivascular pathways for influx of cerebrospinal fluid are most efficient in the midbrain. <i>Clinical Science</i> , <b>2017</b> , 131, 2745-2752	6.5	15
47	Hypercholesterolemia induced cerebral small vessel disease. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182822	3.7	24
46	Inhibition of Aquaporin-4 Improves the Outcome of Ischaemic Stroke and Modulates Brain Paravascular Drainage Pathways. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 19,	6.3	35
45	The increasing impact of cerebral amyloid angiopathy: essential new insights for clinical practice. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2017</b> , 88, 982-994	5.5	109
44	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> , <b>2017</b> , 114, E6962-E6971	11.5	66
43	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> , <b>2017</b> , 43, 492-504	5.2	41
42	Arterial Pulsations cannot Drive Intramural Periarterial Drainage: Significance for Drainage. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 475	5.1	45
41	Deposition of amyloid $\beta$ 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> , <b>2016</b> , 1862, 1037-46	6.9	94

40	Vascular, glial, and lymphatic immune gateways of the central nervous system. <i>Acta Neuropathologica</i> , <b>2016</b> , 132, 317-38	14.3	195
39	Pathophysiology of Lymphatic Drainage of the Central Nervous System <b>2016</b> , 479-501		1
38	Pulsations with reflected boundary waves: a hydrodynamic reverse transport mechanism for perivascular drainage in the brain. <i>Journal of Mathematical Biology</i> , <b>2016</b> , 73, 469-90	2	23
37	Quantification of molecular interactions between ApoE, amyloid-beta (A $\beta$ ) and laminin: Relevance to accumulation of A $\beta$ in Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2016</b> , 1862, 1047-53	6.9	26
36	Peristalsis with Oscillating Flow Resistance: A Mechanism for Periarterial Clearance of Amyloid Beta from the Brain. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 1553-65	4.7	30
35	Hemisphere Asymmetry of Response to Pharmacologic Treatment in an Alzheimer's Disease Mouse Model. <i>Journal of Alzheimer's Disease</i> , <b>2016</b> , 51, 333-8	4.3	6
34	A Simulation Model of Periarterial Clearance of Amyloid- $\beta$ from the Brain. <i>Frontiers in Aging Neuroscience</i> , <b>2016</b> , 8, 18	5.3	25
33	Increased A $\beta$ pathology in aged Tg2576 mice born to mothers fed a high fat diet. <i>Scientific Reports</i> , <b>2016</b> , 6, 21981	4.9	17
32	Vascular basement membranes as pathways for the passage of fluid into and out of the brain. <i>Acta Neuropathologica</i> , <b>2016</b> , 131, 725-36	14.3	182
31	Lymphatic Clearance of the Brain: Perivascular, Paravascular and Significance for Neurodegenerative Diseases. <i>Cellular and Molecular Neurobiology</i> , <b>2016</b> , 36, 181-94	4.6	218
30	Are the effects of APOE $\epsilon$ 4 on cognitive function in nonclinical populations age- and gender-dependent?. <i>Neurodegenerative Disease Management</i> , <b>2015</b> , 5, 37-48	2.8	12
29	Clearance systems in the brain-implications for Alzheimer disease. <i>Nature Reviews Neurology</i> , <b>2015</b> , 11, 457-70	15	759
28	Does the difference between PART and Alzheimer's disease lie in the age-related changes in cerebral arteries that trigger the accumulation of A $\beta$ and propagation of tau?. <i>Acta Neuropathologica</i> , <b>2015</b> , 129, 763-6	14.3	32
27	White matter changes in dementia: role of impaired drainage of interstitial fluid. <i>Brain Pathology</i> , <b>2015</b> , 25, 63-78	6	105
26	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> , <b>2015</b> , 39, 1325-8	5.5	13
25	Prenatal high-fat diet alters the cerebrovasculature and clearance of $\beta$ amyloid in adult offspring. <i>Journal of Pathology</i> , <b>2015</b> , 235, 619-31	9.4	38
24	A Cerebral Clearance Pathway for Amyloid $\beta$ <i>FASEB Journal</i> , <b>2015</b> , 29, 705.6	0.9	
23	Amyloid and tau in the brain in sporadic Alzheimer's disease: defining the chicken and the egg. <i>Acta Neuropathologica</i> , <b>2014</b> , 127, 617-8	14.3	9

22	Afferent and efferent immunological pathways of the brain. Anatomy, function and failure. <i>Brain, Behavior, and Immunity</i> , <b>2014</b> , 36, 9-14	16.6	66
21	The Cerebrovascular Basement Membrane: Role in the Clearance of Amyloid and Cerebral Amyloid Angiopathy. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 251	5.3	76
20	Impact of N-Acetylcysteine on cerebral amyloid- $\beta$ plaques and kidney damage in spontaneously hypertensive stroke-prone rats. <i>Journal of Alzheimer's Disease</i> , <b>2014</b> , 42 Suppl 3, S305-13	4.3	5
19	Interplay between age, cerebral small vessel disease, parenchymal amyloid- $\beta$ and tau pathology: longitudinal studies in hypertensive stroke-prone rats. <i>Journal of Alzheimer's Disease</i> , <b>2014</b> , 42 Suppl 3, S205-15	4.3	29
18	Blood vessel feature description for detection of Alzheimers disease <b>2014</b> ,		1
17	Failure of perivascular drainage of Amyloid in cerebral amyloid angiopathy. <i>Brain Pathology</i> , <b>2014</b> , 24, 396-403	6	99
16	Phosphodiesterase III inhibitor promotes drainage of cerebrovascular Amyloid. <i>Annals of Clinical and Translational Neurology</i> , <b>2014</b> , 1, 519-33	5.3	66
15	Hypertension drives parenchymal Amyloid accumulation in the brain parenchyma. <i>Annals of Clinical and Translational Neurology</i> , <b>2014</b> , 1, 124-9	5.3	28
14	Intravital imaging in spontaneously hypertensive stroke-prone rats-a pilot study. <i>Experimental &amp; Translational Stroke Medicine</i> , <b>2014</b> , 6, 1		11
13	MK886 reduces cerebral amyloid angiopathy severity in TgCRND8 mice. <i>Neurodegenerative Diseases</i> , <b>2014</b> , 13, 17-23	2.3	11
12	Stroke-induced opposite and age-dependent changes of vessel-associated markers in co-morbid transgenic mice with Alzheimer-like alterations. <i>Experimental Neurology</i> , <b>2013</b> , 250, 270-81	5.7	29
11	Regional differences in the morphological and functional effects of aging on cerebral basement membranes and perivascular drainage of amyloid- $\beta$ from the mouse brain. <i>Aging Cell</i> , <b>2013</b> , 12, 224-36	9.9	96
10	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> , <b>2013</b> , 39, 593-611	5.2	147
9	Intracerebral immune complex formation induces inflammation in the brain that depends on Fc receptor interaction. <i>Acta Neuropathologica</i> , <b>2012</b> , 124, 479-90	14.3	33
8	Disruption of arterial perivascular drainage of amyloid- $\beta$ from the brains of mice expressing the human APOE $\epsilon$ allele. <i>PLoS ONE</i> , <b>2012</b> , 7, e41636	3.7	122
7	Perivascular drainage of solutes is impaired in the ageing mouse brain and in the presence of cerebral amyloid angiopathy. <i>Acta Neuropathologica</i> , <b>2011</b> , 121, 431-43	14.3	232
6	Lymphatic drainage of the brain and the pathophysiology of neurological disease. <i>Acta Neuropathologica</i> , <b>2009</b> , 117, 1-14	14.3	367
5	Cerebral amyloid angiopathy in the aetiology and immunotherapy of Alzheimer disease. <i>Alzheimer's Research and Therapy</i> , <b>2009</b> , 1, 6	9	97

4	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> , <b>2008</b> , 34, 131-44	5.2	410
3	Perivascular drainage of amyloid-beta peptides from the brain and its failure in cerebral amyloid angiopathy and Alzheimer's disease. <i>Brain Pathology</i> , <b>2008</b> , 18, 253-66	6	439
2	A unique variation of the sciatic nerve. <i>Clinical Anatomy</i> , <b>2008</b> , 21, 800-1	2.5	7
1	Pulsation changes link to impaired glymphatic function in a mouse model of vascular cognitive impairment		1