

# Olivier Baledent

## List of Publications by Year in descending order

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74  
papers

1,934  
citations

331670

21  
h-index

276875

41  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aging Effects on Cerebral Blood and Cerebrospinal Fluid Flows. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1563-1572.	4.3	248
2	Cerebrospinal Fluid Dynamics and Relation with Blood Flow. <i>Investigative Radiology</i> , 2001, 36, 368-377.	6.2	201
3	Relationship Between Cerebrospinal Fluid and Blood Dynamics in Healthy Volunteers and Patients with Communicating Hydrocephalus. <i>Investigative Radiology</i> , 2004, 39, 45-55.	6.2	158
4	A Phase-Contrast MRI Study of Physiologic Cerebral Venous Flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1208-1215.	4.3	119
5	Origin of subarachnoid cerebrospinal fluid pulsations: a phase-contrast MR analysis. <i>Magnetic Resonance Imaging</i> , 2000, 18, 387-395.	1.8	105
6	Brain hydrodynamics study by phase-contrast magnetic resonance imaging and transcranial color doppler. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 995-1004.	3.4	70
7	Hepatic vascular flow measurements by phase contrast MRI and doppler echography: A comparative and reproducibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 579-588.	3.4	62
8	Cerebrospinal fluid and blood flow in mild cognitive impairment and Alzheimer's disease: a differential diagnosis from idiopathic normal pressure hydrocephalus. <i>Fluids and Barriers of the CNS</i> , 2011, 8, 12.	5.0	60
9	A New Lumped-Parameter Model of Cerebrospinal Hydrodynamics During the Cardiac Cycle in Healthy Volunteers. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 483-491.	4.2	52
10	A coupled hydrodynamic model of the cardiovascular and cerebrospinal fluid system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1492-H1509.	3.2	52
11	Concomitant Analysis of Arterial, Venous, and CSF Flows using Phase-Contrast MRI: A Quantitative Comparison Between MS Patients and Healthy Controls. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1314-1321.	4.3	51
12	Extracranial versus intracranial hydro-hemodynamics during aging: a PC-MRI pilot cross-sectional study. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 1.	5.0	48
13	Decreased Cerebrospinal Fluid Flow Is Associated With Cognitive Deficit in Elderly Patients. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 87.	3.4	46
14	Cerebrospinal Fluid Flow Waveforms. <i>Investigative Radiology</i> , 2001, 36, 146-154.	6.2	41
15	A 3D subject-specific model of the spinal subarachnoid space with anatomically realistic ventral and dorsal spinal cord nerve rootlets. <i>Fluids and Barriers of the CNS</i> , 2017, 14, 36.	5.0	36
16	Intracranial Fluid Dynamics in Normal and Hydrocephalic States. <i>Journal of Computer Assisted Tomography</i> , 2004, 28, 247-254.	0.9	34
17	Dynamic measurements of total hepatic blood flow with Phase Contrast MRI. <i>European Journal of Radiology</i> , 2010, 73, 119-124.	2.6	33
18	Heart rate and respiration influence on macroscopic blood and CSF flows. <i>Acta Radiologica</i> , 2017, 58, 977-982.	1.1	28

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19	Anthropomorphic Model of Intrathecal Cerebrospinal Fluid Dynamics Within the Spinal Subarachnoid Space: Spinal Cord Nerve Roots Increase Steady-Streaming. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	28
20	Compliance of the cerebrospinal space: comparison of three methods. <i>Acta Neurochirurgica</i> , 2021, 163, 1979-1989.	1.7	27
21	Measurement of choroid plexus perfusion using dynamic susceptibility MR imaging: capillary permeability and age-related changes. <i>Neuroradiology</i> , 2013, 55, 1447-1454.	2.2	25
22	Enhanced in vitro model of the CSF dynamics. <i>Fluids and Barriers of the CNS</i> , 2019, 16, 11.	5.0	23
23	Correlation Between Tap Test and CSF Aqueductal Stroke Volume in Idiopathic Normal Pressure Hydrocephalus. <i>Acta Neurochirurgica Supplementum</i> , 2012, 113, 43-46.	1.0	20
24	Interactions between Flow Oscillations and Biochemical Parameters in the Cerebrospinal Fluid. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 154.	3.4	20
25	Estimation of the Lateral Ventricles Volumes from a 2D Image and Its Relationship with Cerebrospinal Fluid Flow. <i>BioMed Research International</i> , 2013, 2013, 1-9.	1.9	18
26	Relationship between cerebrospinal fluid flow, ventricles morphology, and DTI properties in internal capsules: differences between Alzheimer's disease and normal-pressure hydrocephalus. <i>Acta Radiologica</i> , 2014, 55, 992-999.	1.1	18
27	Insights Into Cerebrospinal Fluid and Cerebral Blood Flows in Infants and Young Children. <i>Journal of Child Neurology</i> , 2014, 29, 1608-1615.	1.4	18
28	Does Phase-Contrast Imaging through the Cerebral Aqueduct Predict the Outcome of Lumbar CSF Drainage or Shunt Surgery in Patients with Suspected Adult Hydrocephalus?. <i>American Journal of Neuroradiology</i> , 2018, 39, 2224-2230.	2.4	16
29	A Phase-Contrast MRI Study of Acute and Chronic Hydrodynamic Alterations after Hydrocephalus Induced by Subarachnoid Hemorrhage. <i>Journal of Neuroimaging</i> , 2012, 22, 343-350.	2.0	15
30	Use of dynamic 18F-fluorodeoxyglucose positron emission tomography to investigate choroid plexus function in Alzheimer's disease. <i>Experimental Gerontology</i> , 2016, 77, 62-68.	2.8	15
31	Use of Phase-Contrast MRA to Assess Intracranial Venous Sinus Resistance to Drainage in Healthy Individuals. <i>American Journal of Neuroradiology</i> , 2017, 38, 281-287.	2.4	14
32	Cerebrospinal Fluid and Cerebral Blood Flows in Idiopathic Intracranial Hypertension. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 237-241.	1.0	13
33	Imaging of the cerebrospinal fluid circulation. , 2014, , 121-138.		12
34	Cerebral Blood and CSF Flow Patterns in Patients Diagnosed for Cerebral Venous Thrombosis - An Observational Study. <i>Journal of Clinical Imaging Science</i> , 2012, 2, 41.	1.1	11
35	Ventriculomegaly in the Elderly: Who Needs a Shunt? A MRI Study on 90 Patients. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 221-228.	1.0	11
36	Ocular blood flow and cerebrospinal fluid pressure in glaucoma. <i>Acta Radiologica Open</i> , 2016, 5, 205846011562427.	0.6	10

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37	3T non-injected phase-contrast MRI sequences for the mapping of the external carotid branches: InÂvivo radio-anatomical pilot study for feasibility analysis. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2018, 46, 98-106.	1.7	10
38	Total cerebrovascular blood flow and whole brain perfusion in children sedated using propofol with or without ketamine at induction: An investigation with 2Dâ€Cine PC and ASL. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1433-1440.	3.4	10
39	Simple Patient-Based Transmantle Pressure and Shear Estimate From Cine Phase-Contrast MRI in Cerebral Aqueduct. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2874-2883.	4.2	9
40	Effect of surgery on periventricular white matter in normal pressure hydrocephalus patients: comparison of two methods of DTI analysis. <i>Acta Radiologica</i> , 2014, 55, 614-621.	1.1	9
41	A phase-contrast MRI study of physiologic cerebral venous flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 0, , .	4.3	9
42	Dynamics of hydrocephalus: a physical approach. <i>Journal of Biological Physics</i> , 2012, 38, 251-266.	1.5	8
43	Influence of principal component analysis acceleration factor on velocity measurement in 2D and 4D PC-MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 469-481.	2.0	8
44	Aqueductal Cerebrospinal Fluid Stroke Volume Flow in a Rodent Model of Chronic Communicating Hydrocephalus: Establishing a Homogeneous Study Population for Cerebrospinal Fluid Dynamics Exploration. <i>World Neurosurgery</i> , 2019, 128, e1118-e1125.	1.3	8
45	Phase-shift between arterial flow and ICP pulse during infusion test. <i>Acta Neurochirurgica</i> , 2015, 157, 633-638.	1.7	7
46	Early assessment of lateralization and sex influences on the microstructure of the white matter corticospinal tract in healthy term neonates. <i>Journal of Neuroscience Research</i> , 2019, 97, 480-491.	2.9	7
47	â€œBucketâ€-cerebrospinal fluid bulk flowâ€ is it a fact or a fiction?. <i>Acta Neurochirurgica</i> , 2019, 161, 257-258.	1.7	7
48	Physical Phantom of Craniospinal Hydrodynamics. <i>Acta Neurochirurgica Supplementum</i> , 2012, 113, 65-69.	1.0	7
49	Cerebrovascular time constant in patients suffering from hydrocephalus. <i>Neurological Research</i> , 2014, 36, 255-261.	1.3	6
50	Correlation of CSF flow using phase-contrast MRI with ventriculomegaly and CSF opening pressure in mucopolysaccharidoses. <i>Fluids and Barriers of the CNS</i> , 2017, 14, 23.	5.0	6
51	Relationship between pineal cyst size and aqueductal CSF flow measured by phase contrast MRI. <i>Journal of Neurosurgical Sciences</i> , 2021, 65, 63-68.	0.6	6
52	Sleep Apnea Syndrome in an Elderly Population Admitted to a Geriatric Unit: Prevalence and Effect on Cognitive Function. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 361.	3.4	6
53	Brain pulsations enlightened. <i>Acta Neurochirurgica</i> , 2018, 160, 225-227.	1.7	5
54	Dynamics of Cerebrospinal Fluid: From Theoretical Models to Clinical Applications. <i>Biological and Medical Physics Series</i> , 2019, , 181-214.	0.4	5

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55	Use of real-time phase-contrast MRI to quantify the effect of spontaneous breathing on the cerebral arteries. <i>NeuroImage</i> , 2022, 258, 119361.	4.2	5
56	The kinetics of <sup>18</sup> F-fluorodeoxyglucose uptake in the choroid plexus. <i>International Journal of Imaging Systems and Technology</i> , 2011, 21, 107-114.	4.1	4
57	Quantitative analysis of cerebrospinal fluid flow in complex regions by using phase contrast magnetic resonance imaging. <i>International Journal of Imaging Systems and Technology</i> , 2011, 21, 290-297.	4.1	4
58	Normalâ€Pressure Hydrocephalus, Sleep Apnea Syndrome, and Quality of Life in an Octagenarian. <i>Journal of the American Geriatrics Society</i> , 2016, 64, 1922-1923.	2.6	4
59	Quantitative assessment of the flow distribution in the branches of the external carotid by non-injected flow MRI. <i>Dentomaxillofacial Radiology</i> , 2018, 47, 20180153.	2.7	4
60	An innovative approach to investigate the dynamics of the cerebrospinal fluid in the prepontine cistern: A feasibility study using spatial saturation-prepared cine PC-MRI. <i>European Journal of Radiology Open</i> , 2014, 1, 14-21.	1.6	3
61	Quantification of blood flow in the superior ophthalmic vein using phase contrast magnetic resonance imaging. <i>Experimental Eye Research</i> , 2018, 176, 40-45.	2.6	3
62	Mathematical Modelling of CSF Pulsatile Flow in Aqueduct Cerebri. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 233-236.	1.0	3
63	Numerical Cerebrospinal System Modeling in Fluid-Structure Interaction. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 255-259.	1.0	2
64	A New Noninvasive Method for Determining the Local (True) Wave Speed: Application to Internal Carotid Artery. <i>Biophysical Reviews and Letters</i> , 2018, 13, 61-73.	0.8	2
65	A Semi-automatic Software for Processing Real-Time Phase-Contrast MRI Data. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019, , 22-28.	0.5	2
66	Erratum to "Estimation of the Lateral Ventricles Volumes from a 2D Image and Its Relationship with Cerebrospinal Fluid Flow". <i>BioMed Research International</i> , 2014, 2014, 1-1.	1.9	1
67	Ventricular Volume Dynamics During the Development of Adult Chronic Communicating Hydrocephalus in a Rodent Model. <i>World Neurosurgery</i> , 2018, 120, e1120-e1127.	1.3	1
68	Dynamics of Cerebrospinal Fluid: From Theoretical Models to Clinical Applications. <i>Biological and Medical Physics Series</i> , 2011, , 137-167.	0.4	1
69	A novel non-invasive method for estimating the local wave speed at a single site in the internal carotid artery. <i>Biomedizinische Technik</i> , 2020, 65, 557-566.	0.8	1
70	Ophthalmic Artery and Superior Ophthalmic Vein Blood Flow Dynamics in Glaucoma Investigated by Phase Contrast Magnetic Resonance Imaging. <i>Journal of Glaucoma</i> , 2021, 30, 65-70.	1.6	1
71	Estimation of transfer function in carotid artery. , 2018, , .		0
72	Diffusion and Flow MR Imaging to Investigate Hydrocephalus Patients Before and After Endoscopic Third Ventriculostomy. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 303-306.	1.0	0

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73	A NOVEL METHOD FOR DETERMINING THE ARRIVAL TIME OF REFLECTED WAVE AT SINGLE SITE: VALIDATION USING PHASE CONTRAST MAGNETIC RESONANCE DATA. Journal of Mechanics in Medicine and Biology, 0, , .	0.7	0
74	COMPARISON BETWEEN TWO NONINVASIVE METHODS USED TO ESTIMATE BIOMECHANICAL PROPERTIES OF THE INTERNAL CAROTID ARTERY. Journal of Mechanics in Medicine and Biology, 0, , .	0.7	0