

# Quan Long

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7003945/publications.pdf>

Version: 2024-02-01

46  
papers

1,185  
citations

471371

17  
h-index

395590

33  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1404  
citing authors

#	ARTICLE	IF	CITATIONS
1	MRI measurement of time-resolved wall shear stress vectors in a carotid bifurcation model, and comparison with CFD predictions. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 153-162.	1.9	149
2	Reconstruction of blood flow patterns in a human carotid bifurcation: A combined CFD and MRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 299-311.	1.9	147
3	Variability of Computational Fluid Dynamics Solutions for Pressure and Flow in a Giant Aneurysm: The ASME 2012 Summer Bioengineering Conference CFD Challenge. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 021016.	0.6	109
4	Carotid arterial plaque stress analysis using fluid-structure interactive simulation based on in-vivo magnetic resonance images of four patients. <i>Journal of Biomechanics</i> , 2009, 42, 1416-1423.	0.9	77
5	MRI measurement of wall shear stress vectors in bifurcation models and comparison with CFD predictions. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 563-573.	1.9	76
6	Coupled modelling of tumour angiogenesis, tumour growth and blood perfusion. <i>Journal of Theoretical Biology</i> , 2011, 279, 90-101.	0.8	76
7	Effects of varied lipid core volume and fibrous cap thickness on stress distribution in carotid arterial plaques. <i>Journal of Biomechanics</i> , 2008, 41, 3053-3059.	0.9	64
8	Study of tumor blood perfusion and its variation due to vascular normalization by anti-angiogenic therapy based on 3D angiogenic microvasculature. <i>Journal of Biomechanics</i> , 2009, 42, 712-721.	0.9	64
9	Study of the collateral capacity of the circle of Willis of patients with severe carotid artery stenosis by 3D computational modeling. <i>Journal of Biomechanics</i> , 2008, 41, 2735-2742.	0.9	46
10	Computational fluid dynamic study of hemodynamic effects on aortic root blood flow of systematically varied left ventricular assist device graft anastomosis design. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2015, 150, 696-704.	0.4	43
11	Phase lock and stationary fluctuations induced by correlation between additive and multiplicative noise terms in a single-mode laser. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 231, 339-343.	0.9	39
12	Study of carotid arterial plaque stress for symptomatic and asymptomatic patients. <i>Journal of Biomechanics</i> , 2011, 44, 2551-2557.	0.9	32
13	Coupled modeling of blood perfusion in intravascular, interstitial spaces in tumor microvasculature. <i>Journal of Biomechanics</i> , 2008, 41, 996-1004.	0.9	31
14	Mathematical Modelling of a Brain Tumour Initiation and Early Development: A Coupled Model of Glioblastoma Growth, Pre-Existing Vessel Co-Option, Angiogenesis and Blood Perfusion. <i>PLoS ONE</i> , 2016, 11, e0150296.	1.1	31
15	Study of reproducibility of human arterial plaque reconstruction and its effects on stress analysis based on multispectral in vivo magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 85-93.	1.9	27
16	Computational modelling of emboli travel trajectories in cerebral arteries: influence of microembolic particle size and density. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 289-302.	1.4	27
17	Quantitative comparison of CFD predicted and MRI measured velocity fields in a carotid bifurcation phantom. <i>Biorheology</i> , 2002, 39, 467-74.	1.2	22
18	Numerical simulation of blood flow and interstitial fluid pressure in solid tumor microcirculation based on tumor-induced angiogenesis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2007, 23, 477-483.	1.5	19

#	ARTICLE	IF	CITATIONS
19	One-dimensional model of a single-mode laser with correlation between additive and multiplicative noises. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 216, 106-110.	0.9	14
20	Modelling wall shear stress in small arteries using the Lattice Boltzmann method: influence of the endothelial wall profile. <i>Medical Engineering and Physics</i> , 2011, 33, 832-839.	0.8	14
21	Stress Analysis of Carotid Atheroma in Transient Ischemic Attack Patients: Evidence for Extreme Stress-Induced Plaque Rupture. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2203-2212.	1.3	12
22	Reconstruction of blood flow patterns in a human carotid bifurcation: A combined CFD and MRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 299.	1.9	12
23	Numerical simulation of tumor-induced angiogenesis influenced by the extra-cellular matrix mechanical environment. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009, 25, 889-895.	1.5	8
24	Simulation of tumor microvasculature and microenvironment response to anti-angiogenic treatment by angiostatin and endostatin. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011, 32, 437-448.	1.9	8
25	Numerical simulation of inhibiting effects on solid tumour cells in anti-angiogenic therapy: application of coupled mathematical model of angiogenesis with tumour growth. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011, 32, 1287-1296.	1.9	7
26	Effects of a Novel Drift Term Due to Cross Correlation Between Additive and Multiplicative Noises in a Single-Mode Laser. <i>Chinese Physics Letters</i> , 1998, 15, 266-268.	1.3	6
27	Inconsistency in aortic stenosis severity between CT and echocardiography: prevalence and insights into mechanistic differences using computational fluid dynamics. <i>Open Heart</i> , 2019, 6, e001044.	0.9	6
28	Numerical simulation of solid tumor angiogenesis with Endostatin treatment: a combined analysis of inhibiting effect of anti-angiogenic factor and micro mechanical environment of extracellular matrix. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2009, 30, 1247-1254.	1.9	4
29	3D numerical simulation of avascular tumour growth: effect of hypoxic micro-environment in host tissue. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013, 34, 1055-1068.	1.9	4
30	Numerical simulation of avascular tumor growth based on p27 gene regulation. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013, 34, 327-338.	1.9	3
31	Circumferential Residual Stress Distribution and Its Influence in a Diseased Carotid Artery. , 2009, , .		2
32	Two-dimensional discrete mathematical model of tumor-induced angiogenesis. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2009, 30, 455-462.	1.9	2
33	Hybrid discrete-continuum model of tumor growth considering capillary points. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013, 34, 1237-1246.	1.9	2
34	Numerical Simulation of Solid Tumor Blood Perfusion and Drug Delivery during the "Vascular Normalization Window" with Antiangiogenic Therapy. <i>Journal of Applied Mathematics</i> , 2011, 2011, 1-8.	0.4	1
35	Stress Analysis on Carotid Atherosclerotic Plaques by Fluid Structure Interaction. , 2011, , 87-118.		1
36	Stress Analysis of Carotid Atheroma in Transient Ischemic Attack Patients. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Study of Tumor Microenvironment to Vascular Normalization Based on 3-D Simulation of Tumor Haemodynamics. , 2009, , .		0
38	Stress Analysis on Human Arterial Plaques by Fluid Structure Interactions: Multi-Case Study. , 2009, , .		0
39	CFD Challenge: Solutions Using the Commercial Finite Volume Solver, Fluent. , 2012, , .		0
40	Study of Embolic Particle Migration in Cerebral Arteries by Computational Modelling. , 2012, , .		0
41	Atherosclerosis Plaque Stress Analysis: A Review. , 2014, , 81-93.		0
42	Assessment of Structure Distortion of Paraffin Wax Histology Section of Human Carotid Atherosclerotic Plaque Specimen. , 2009, , .		0
43	High Resolution 3D Reconstruction of an Atherosclerotic Plaque by a Combination of Histology and 3D Ultrasound. , 2009, , .		0
44	Carotid Wall Motion Analysis Based on B-Mode Ultrasound Images. IFMBE Proceedings, 2010, , 871-874.	0.2	0
45	Blood Perfusion in Solid Tumor with "Normalized" Microvasculature. , 2012, , 361-398.		0
46	Carotid Plaque Stress Analysis: Issues on Patient-Specific Modeling. , 2014, , 95-106.		0