

# Quan Long

## 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.

38

papers

1,011

citations

17

h-index

31

g-index

47

ext. papers

1,101

ext. citations

2.9

avg, IF

3.64

L-index

#	Paper	IF	Citations
38	Inconsistency in aortic stenosis severity between CT and echocardiography: prevalence and insights into mechanistic differences using computational fluid dynamics. <i>Open Heart</i> , <b>2019</b> , 6, e001044	3	4
37	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> , <b>2016</b> , 11, e0150296	3.7	28
36	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> , <b>2015</b> , 150, 696-704	1.5	28
35	Computational modelling of emboli travel trajectories in cerebral arteries: influence of microembolic particle size and density. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2014</b> , 13, 289-302 <sup>3.8</sup>	3.8	23
34	Atherosclerosis Plaque Stress Analysis: A Review <b>2014</b> , 81-93		
33	Carotid Plaque Stress Analysis: Issues on Patient-Specific Modeling <b>2014</b> , 95-106		
32	3D numerical simulation of avascular tumour growth: effect of hypoxic micro-environment in host tissue. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2013</b> , 34, 1055-1068	3.2	3
31	Hybrid discrete-continuum model of tumor growth considering capillary points. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2013</b> , 34, 1237-1246	3.2	2
30	Numerical simulation of avascular tumor growth based on p27 gene regulation. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2013</b> , 34, 327-338	3.2	3
29	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> , <b>2013</b> , 135, 021016	2.1	92
28	Blood Perfusion in Solid Tumor with Normalized Microvasculature <b>2012</b> , 361-398		
27	Study of carotid arterial plaque stress for symptomatic and asymptomatic patients. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 2551-7	2.9	29
26	Stress analysis of carotid atheroma in transient ischemic attack patients: evidence for extreme stress-induced plaque rupture. <i>Annals of Biomedical Engineering</i> , <b>2011</b> , 39, 2203-12	4.7	11
25	Simulation of tumor microvasculature and microenvironment response to anti-angiogenic treatment by angiostatin and endostatin. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2011</b> , 32, 437-448	3.2	7
24	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> , <b>2011</b> , 32, 1287-1296	3.2	7
23	Coupled modelling of tumour angiogenesis, tumour growth and blood perfusion. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 279, 90-101	2.3	64
22	Modelling wall shear stress in small arteries using the Lattice Boltzmann method: influence of the endothelial wall profile. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 832-9	2.4	14

21	Numerical Simulation of Solid Tumor Blood Perfusion and Drug Delivery during the Vascular Normalization Window with Antiangiogenic Therapy. <i>Journal of Applied Mathematics</i> , <b>2011</b> , 2011, 1-8	1.1	
20	Stress Analysis on Carotid Atherosclerotic Plaques by Fluid Structure Interaction <b>2011</b> , 87-118		1
19	Circumferential Residual Stress Distribution and Its Influence in a Diseased Carotid Artery <b>2009</b> ,		2
18	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> , <b>2009</b> , 30, 85-93	5.6	25
17	Numerical simulation of tumor-induced angiogenesis influenced by the extra-cellular matrix mechanical environment. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2009</b> , 25, 889-895	2	7
16	Two-dimensional discrete mathematical model of tumor-induced angiogenesis. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2009</b> , 30, 455-462	3.2	1
15	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> , <b>2009</b> , 30, 1247-1254	3.2	4
14	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> , <b>2009</b> , 42, 1416-1423	2.9	63
13	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> , <b>2009</b> , 42, 712-21	2.9	58
12	Coupled modeling of blood perfusion in intravascular, interstitial spaces in tumor microvasculature. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 996-1004	2.9	31
11	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> , <b>2008</b> , 41, 2735-42	2.9	34
10	Effects of varied lipid core volume and fibrous cap thickness on stress distribution in carotid arterial plaques. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 3053-9	2.9	57
9	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> , <b>2007</b> , 23, 477-483	2	14
8	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> , <b>2003</b> , 17, 153-62	5.6	123
7	Quantitative comparison of CFD predicted and MRI measured velocity fields in a carotid bifurcation phantom. <i>Biorheology</i> , <b>2002</b> , 39, 467-74	1.7	19
6	MRI measurement of wall shear stress vectors in bifurcation models and comparison with CFD predictions. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 563-73	5.6	66
5	Reconstruction of blood flow patterns in a human carotid bifurcation: a combined CFD and MRI study. <i>Journal of Magnetic Resonance Imaging</i> , <b>2000</b> , 11, 299-311	5.6	127
4	Reconstruction of blood flow patterns in a human carotid bifurcation: A combined CFD and MRI study <b>2000</b> , 11, 299		7

3	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> , <b>1998</b> , 15, 266-268	1.8	6
2	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> , <b>1997</b> , 231, 339-343	2.3	37
1	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> , <b>1996</b> , 216, 106-110	2.3	14