Guy Courbebaisse

List of Publications by Year
in descending order

39	546	687363 13	713466 21
papers	citations	h-index	g-index

39	39	39	743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Parallel Image Registration Algorithm Based on a Lattice Boltzmann Model. Information (Switzerland), 2020, 11, 1.	2.9	55
2	Thrombosis modeling in intracranial aneurysms: a lattice Boltzmann numerical algorithm. Computer Physics Communications, 2008, 179, 128-131.	7.5	52
3	Segmentation of the thrombus of giant intracranial aneurysms from CT angiography scans with lattice Boltzmann method. Medical Image Analysis, 2014, 18, 1-8.	11.6	37
4	SIMULATION OF GENERALIZED NEWTONIAN FLUIDS WITH THE LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2007, 18, 1939-1949.	1.7	35
5	Determination of a shear rate threshold for thrombus formation in intracranial aneurysms. Journal of NeuroInterventional Surgery, 2016, 8, 853-858.	3.3	32
6	Intracranial Aneurysms: Wall Motion Analysis for Prediction of Rupture. American Journal of Neuroradiology, 2015, 36, 1796-1802.	2.4	30
7	A spatio-temporal model for spontaneous thrombus formation in cerebral aneurysms. Journal of Theoretical Biology, 2016, 394, 68-76.	1.7	30
8	Estimation of the viscoelastic properties of vessel walls using a computational model and Doppler ultrasound. Physics in Medicine and Biology, 2010, 55, 3557-3575.	3.0	29
9	The symmetric logarithmic image processing model. , 2013, 23, 1337-1343.		27
10	Multilevel segmentation of intracranial aneurysms in CT angiography images. Medical Physics, 2016, 43, 1777-1786.	3.0	20
11	Shape analysis and injection molding optimization. Computational Materials Science, 2002, 25, 547-553.	3.0	19
12	Towards optimal flow diverter porosity for the treatment of intracranial aneurysm. Journal of Biomechanics, 2019, 82, 20-27.	2.1	19
13	Quantitative analysis of platelets aggregates in 3D by digital holographic microscopy. Biomedical Optics Express, 2015, 6, 3556.	2.9	18
14	WAVELET TRANSFORM AND LIP MODEL. Image Analysis and Stereology, 2002, 21, 121.	0.9	16
15	A physical description of the adhesion and aggregation of platelets. Royal Society Open Science, 2017, 4, 170219.	2.4	15
16	MR Derived Volumetric Flow Rate Waveforms of Internal Carotid Artery in Patients Treated for Unruptured Intracranial Aneurysms by Flow Diversion Technique. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 2070-2079.	4.3	14
17	Myeloperoxidase Oxidized LDL Interferes with Endothelial Cell Motility through miR-22 and Heme Oxygenase 1 Induction: Possible Involvement in Reendothelialization of Vascular Injuries. Mediators of Inflammation, 2014, 2014, 1-14.	3.0	11
18	An in vitro test bench reproducing coronary blood flow signals. BioMedical Engineering OnLine, 2015, 14, 77.	2.7	11

#	Article	IF	Citations
19	Logarithmic Wavelets. Advances in Imaging and Electron Physics, 2014, 183, 41-98.	0.2	9
20	Intracranial Aneurysm Phantom Segmentation Using a 4D Lattice Boltzmann Method. Computing in Science and Engineering, 2017, 19, 56-67.	1.2	8
21	Numerical simulation of injection moulding process and the pre-modelling concept. Computational Materials Science, 2005, 34, 397-405.	3.0	7
22	Highâ€Resolution MRI Visualization of Aneurysmal Thrombosis after Flow Diverter Stent Placement. Journal of Neuroimaging, 2015, 25, 310-311.	2.0	7
23	A method for giant aneurysm segmentation using Eulerâ€™s elastica. Biomedical Signal Processing and Control, 2020, 62, 102111.	5.7	6
24	Lattice Boltzmann Modeling of Injection Moulding Process. Lecture Notes in Computer Science, 2004, , 345-354.	1.3	5
25	Noninvasive Young's modulus evaluation of tissues surrounding pulsatile vessels using ultrasound doppler measurement. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1265-1271.	3.0	5
26	Continuous frequency and phase spectrograms: a study of their 2D and 3D capabilities and application to musical signal analysis. Journal of Zhejiang University: Science A, 2008, 9, 199-206.	2.4	5
27	Segmentation of giant cerebral aneurysms using a multilevel object detection scheme based on lattice Boltzmann method. , 2011, , .		5
28	Lattice Boltzmann method for modelling of biological phenomena. , 2017, , .		5
29	Polymer molding simulation â€“ a mathematical imaging approach based on propagation of discrete distances. Computational Materials Science, 2000, 18, 19-23.	3.0	3
30	3D dynamical ultrasonic model of pulsating vessel walls. Ultrasonics, 2006, 44, e179-e183.	3.9	3
31	Does the gravity orientation of saccular aneurysms influence hemodynamics? An experimental study with and without flow diverter stent. Journal of Biomechanics, 2016, 49, 3808-3814.	2.1	3
32	Lattice Boltzmann Method for Heterogeneous Multi-Class Traffic Flow. Journal of Computational and Theoretical Transport, 2021, 50, 27-51.	0.8	3
33	Time-scale joint representation of DNS and LES numerical data. Computers and Fluids, 2011, 43, 38-45.	2.5	2
34	ModÃ©lisation de signaux sonores par transformÃ©es temps-Ã©chelle et temps-frÃ©quence. European Physical Journal Special Topics, 1994, 04, C5-1315-C5-1318.	0.2	0
35	Logarithmic multiresolution analysis. , 2015, , .		0
36	Fast Image Registration by LB Method. , 2018, , .		0

#	Article	IF	Citations
37	Lattice Boltzmann method for mathematical morphology: application to porous media. , 2021, , .		0
38	Wavelet Analysis of the Turbulent LES Data of the Lid-Driven Cavity Flow. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 87-94.	0.3	0
39	Toward a Lattice Boltzmann Method for Solidsâ€"Application to Static Equilibrium of Isotropic Materials. Applied Sciences (Switzerland), 2022, 12, 4627.	2.5	0