

# Guy Courbebaisse

## List of Publications by Year in descending order

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39  
papers

546  
citations

687363

13  
h-index

713466

21  
g-index

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all docs

39  
docs citations

39  
times ranked

743  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward a Lattice Boltzmann Method for Solids Application to Static Equilibrium of Isotropic Materials. Applied Sciences (Switzerland), 2022, 12, 4627.	2.5	0
2	Lattice Boltzmann Method for Heterogeneous Multi-Class Traffic Flow. Journal of Computational and Theoretical Transport, 2021, 50, 27-51.	0.8	3
3	Lattice Boltzmann method for mathematical morphology: application to porous media. , 2021, , .		0
4	A method for giant aneurysm segmentation using Euler's elastica. Biomedical Signal Processing and Control, 2020, 62, 102111.	5.7	6
5	A Parallel Image Registration Algorithm Based on a Lattice Boltzmann Model. Information (Switzerland), 2020, 11, 1.	2.9	55
6	Towards optimal flow diverter porosity for the treatment of intracranial aneurysm. Journal of Biomechanics, 2019, 82, 20-27.	2.1	19
7	Fast Image Registration by LB Method. , 2018, , .		0
8	A physical description of the adhesion and aggregation of platelets. Royal Society Open Science, 2017, 4, 170219.	2.4	15
9	Lattice Boltzmann method for modelling of biological phenomena. , 2017, , .		5
10	Intracranial Aneurysm Phantom Segmentation Using a 4D Lattice Boltzmann Method. Computing in Science and Engineering, 2017, 19, 56-67.	1.2	8
11	Multilevel segmentation of intracranial aneurysms in CT angiography images. Medical Physics, 2016, 43, 1777-1786.	3.0	20
12	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
13	A spatio-temporal model for spontaneous thrombus formation in cerebral aneurysms. Journal of Theoretical Biology, 2016, 394, 68-76.	1.7	30
14	Determination of a shear rate threshold for thrombus formation in intracranial aneurysms. Journal of NeuroInterventional Surgery, 2016, 8, 853-858.	3.3	32
15	Logarithmic multiresolution analysis. , 2015, , .		0
16	An in vitro test bench reproducing coronary blood flow signals. BioMedical Engineering OnLine, 2015, 14, 77.	2.7	11
17	High-Resolution MRI Visualization of Aneurysmal Thrombosis after Flow Diverter Stent Placement. Journal of Neuroimaging, 2015, 25, 310-311.	2.0	7
18	Quantitative analysis of platelets aggregates in 3D by digital holographic microscopy. Biomedical Optics Express, 2015, 6, 3556.	2.9	18

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19	Intracranial Aneurysms: Wall Motion Analysis for Prediction of Rupture. American Journal of Neuroradiology, 2015, 36, 1796-1802.	2.4	30
20	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
21	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
22	Logarithmic Wavelets. Advances in Imaging and Electron Physics, 2014, 183, 41-98.	0.2	9
23	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
24	The symmetric logarithmic image processing model. , 2013, 23, 1337-1343.		27
25	Segmentation of giant cerebral aneurysms using a multilevel object detection scheme based on lattice Boltzmann method. , 2011, , .		5
26	Time-scale joint representation of DNS and LES numerical data. Computers and Fluids, 2011, 43, 38-45.	2.5	2
27	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
28	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
29	Thrombosis modeling in intracranial aneurysms: a lattice Boltzmann numerical algorithm. Computer Physics Communications, 2008, 179, 128-131.	7.5	52
30	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
31	SIMULATION OF GENERALIZED NEWTONIAN FLUIDS WITH THE LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2007, 18, 1939-1949.	1.7	35
32	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
33	3D dynamical ultrasonic model of pulsating vessel walls. Ultrasonics, 2006, 44, e179-e183.	3.9	3
34	Numerical simulation of injection moulding process and the pre-modelling concept. Computational Materials Science, 2005, 34, 397-405.	3.0	7
35	Lattice Boltzmann Modeling of Injection Moulding Process. Lecture Notes in Computer Science, 2004, , 345-354.	1.3	5
36	Shape analysis and injection molding optimization. Computational Materials Science, 2002, 25, 547-553.	3.0	19

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37	WAVELET TRANSFORM AND LIP MODEL. <i>Image Analysis and Stereology</i> , 2002, 21, 121.	0.9	16
38	Polymer molding simulation â€“ a mathematical imaging approach based on propagation of discrete distances. <i>Computational Materials Science</i> , 2000, 18, 19-23.	3.0	3
39	ModÃ©lisation de signaux sonores par transformÃ©es temps-Ã©chelle et temps-frÃ©quence. <i>European Physical Journal Special Topics</i> , 1994, 04, C5-1315-C5-1318.	0.2	0