

Yohan Davit

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,543
citations

567281

15
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

2396
citing authors

#	ARTICLE	IF	CITATIONS
1	A Domain Decomposition Approach to Finite-Epsilon Homogenization of Scalar Transport in Porous Media. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 1797-1822.	1.8	1
2	Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimer's disease mouse models. <i>Nature Neuroscience</i> , 2019, 22, 413-420.	14.8	316
3	One-Phase and Two-Phase Flow in Highly Permeable Porous Media. <i>Heat Transfer Engineering</i> , 2019, 40, 391-409.	1.9	9
4	Cooperation, competition and antibiotic resistance in bacterial colonies. <i>ISME Journal</i> , 2018, 12, 1582-1593.	9.8	160
5	Inertial Sensitivity of Porous Microstructures. <i>Transport in Porous Media</i> , 2018, 125, 211-238.	2.6	7
6	Multiscale modelling of blood flow in cerebral microcirculation: Details at capillary scale control accuracy at the level of the cortex. <i>PLoS ONE</i> , 2018, 13, e0189474.	2.5	89
7	Effect of disorder in the pore-scale structure on the flow of shear-thinning fluids through porous media. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 261, 99-110.	2.4	10
8	Modeling flow in porous media with rough surfaces: Effective slip boundary conditions and application to structured packings. <i>Chemical Engineering Science</i> , 2017, 165, 131-146.	3.8	31
9	Cell morphology drives spatial patterning in microbial communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E280-E286.	7.1	136
10	Polymer Flow Through Porous Media: Numerical Prediction of the Contribution of Slip to the Apparent Viscosity. <i>Transport in Porous Media</i> , 2017, 119, 521-538.	2.6	6
11	Technical Notes on Volume Averaging in Porous Media I: How to Choose a Spatial Averaging Operator for Periodic and Quasiperiodic Structures. <i>Transport in Porous Media</i> , 2017, 119, 555-584.	2.6	18
12	Transition in the Flow of Power-Law Fluids through Isotropic Porous Media. <i>Physical Review Letters</i> , 2016, 117, 074502.	7.8	37
13	A two-pressure model for slightly compressible single phase flow in bi-structured porous media. <i>Chemical Engineering Science</i> , 2013, 96, 55-70.	3.8	13
14	Homogenization via formal multiscale asymptotics and volume averaging: How do the two techniques compare?. <i>Advances in Water Resources</i> , 2013, 62, 178-206.	3.8	123
15	Hydrodynamic dispersion within porous biofilms. <i>Physical Review E</i> , 2013, 87, 012718.	2.1	29
16	Chaste: An Open Source C++ Library for Computational Physiology and Biology. <i>PLoS Computational Biology</i> , 2013, 9, e1002970.	3.2	375
17	Comment on "Frequency-dependent dispersion in porous media"; <i>Physical Review E</i> , 2012, 86, 013201; discussion 013202.	2.1	7
18	Correspondence Between One- and Two-Equation Models for Solute Transport in Two-Region Heterogeneous Porous Media. <i>Transport in Porous Media</i> , 2012, 95, 213-238.	2.6	24

#	ARTICLE	IF	CITATIONS
19	Imaging biofilm in porous media using X-ray computed microtomography. <i>Journal of Microscopy</i> , 2011, 242, 15-25.	1.8	72
20	Modeling non-equilibrium mass transport in biologically reactive porous media. <i>Advances in Water Resources</i> , 2010, 33, 1075-1093.	3.8	32
21	Equivalence between volume averaging and moments matching techniques for mass transport models in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 4985-4993.	4.8	21
22	Intriguing viscosity effects in confined suspensions: A numerical study. <i>Europhysics Letters</i> , 2008, 83, 64001.	2.0	27