

# Andrea Parmigiani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6482393/publications.pdf>

Version: 2024-02-01

21  
papers

1,347  
citations

623734

14  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Boltzmann model for melting with natural convection. International Journal of Heat and Fluid Flow, 2008, 29, 1469-1480.	2.4	237
2	Palabos: Parallel Lattice Boltzmann Solver. Computers and Mathematics With Applications, 2021, 81, 334-350.	2.7	193
3	Bubble accumulation and its role in the evolution of magma reservoirs in the upper crust. Nature, 2016, 532, 492-495.	27.8	163
4	Pore-scale mass and reactant transport in multiphase porous media flows. Journal of Fluid Mechanics, 2011, 686, 40-76.	3.4	140
5	Generalized three-dimensional lattice Boltzmann color-gradient method for immiscible two-phase pore-scale imbibition and drainage in porous media. Physical Review E, 2017, 95, 033306.	2.1	115
6	Mush microphysics and the reactivation of crystal-rich magma reservoirs. Journal of Geophysical Research: Solid Earth, 2014, 119, 6308-6322.	3.4	81
7	A physical model for metal extraction and transport in shallow magmatic systems. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	79
8	A new pore-scale model for linear and non-linear heterogeneous dissolution and precipitation. Geochimica Et Cosmochimica Acta, 2014, 124, 109-130.	3.9	79
9	The mechanics of shallow magma reservoir outgassing. Geochemistry, Geophysics, Geosystems, 2017, 18, 2887-2905.	2.5	69
10	How do volatiles escape their shallow magmatic hearth?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180017.	3.4	38
11	A Physical Model for Three-Phase Compaction in Silicic Magma Reservoirs. Journal of Geophysical Research: Solid Earth, 2018, 123, 2685-2705.	3.4	36
12	A new bubble dynamics model to study bubble growth, deformation, and coalescence. Journal of Geophysical Research: Solid Earth, 2014, 119, 216-239.	3.4	23
13	Three-dimensional lattice Boltzmann method benchmarks between color-gradient and pseudo-potential immiscible multi-component models. International Journal of Modern Physics C, 2017, 28, 1750085.	1.7	19
14	Lattice Boltzmann simulation of dense rigid spherical particle suspensions using immersed boundary method. Computers and Fluids, 2018, 166, 286-294.	2.5	19
15	Channelization of buoyant nonwetting fluids in saturated porous media. Water Resources Research, 2013, 49, 6371-6380.	4.2	14
16	A LATTICE BOLTZMANN SIMULATION OF THE RHONE RIVER. International Journal of Modern Physics C, 2013, 24, 1340008.	1.7	13
17	Application of the multi distribution function lattice Boltzmann approach to thermal flows. European Physical Journal: Special Topics, 2009, 171, 37-43.	2.6	11
18	Pore-scale simulations of concentration tails in heterogeneous porous media. Journal of Contaminant Hydrology, 2017, 205, 47-56.	3.3	10

#	ARTICLE	IF	CITATIONS
19	Characterization of Transport-Enhanced Phase Separation in Porous Media Using a Lattice-Boltzmann Method. <i>Geofluids</i> , 2019, 2019, 1-13.	0.7	4
20	Impact of Synthetic Porous Medium Geometric Properties on Solute Transport Using Direct 3D Pore-Scale Simulations. <i>Geofluids</i> , 2019, 2019, 1-13.	0.7	3
21	Contribution of Pore-Scale Approach to Macroscale <i>Geofluids</i> Modelling in Porous Media. <i>Geofluids</i> , 2019, 2019, 1-4.	0.7	1