

Thomas Ramstad, PhD

Principal Researcher
Equinor ASA
Arkitekt Ebbels v. 10
NO-7005 Trondheim
Norway
Tel.: +47 906 32 765
Email: trams@equinor.com

Education and Professional Career

1998-2003 MSc in Physics, Norwegian University of Science and Technology (NTNU), Trondheim, Norway
2003-2007 PhD studies in Physics at Norwegian University of Science and Technology (NTNU), Trondheim, Norway
2007-2013 Senior Researcher, Numerical Rocks AS, Trondheim, Norway
Since 2013 Principal Researcher Reservoir Technology, Equinor ASA, Norway

Commitment, Appointments and Scientific Volunteer Jobs

Since 2019 SCA Technical Committee member
Since 2019 Interpore Industry Committee member
Since 2020 Technical Committee member, National IOR Center of Norway (NIOR)
Since 2018 Interpore institutional member contact, Equinor ASA
2016 PhD evaluation committee, NTNU

Most important Publications (maximum 10)

(Peer reviewed journal articles / books / patents)

- [1] T. Ramstad, N. Idowu, C. Nardi, P. E. Øren, Relative permeability calculations from two-phase flow simulations directly on digital images of porous rocks. *Transport in Porous Media*, 94(2), 487-504, 2012
- [2] T. Ramstad, P. E. Øren, S. Bakke. Simulation of two-phase flow in reservoir rocks using a lattice Boltzmann method. *Spe Journal*, 15(04), 917-927, 2010
- [3] T. Ramstad, C. F. Berg, K. Thompson. Pore-scale simulations of single-and two-phase flow in porous media: approaches and applications. *Transport in Porous Media*, 130(1), 77-104, 2019
- [4] K. T. Tallakstad, H. A. Knudsen, T. Ramstad, G. Løvoll, K. J. Måløy, R. Toussaint, E. G. Flekkøy. Steady-state two-phase flow in porous media: statistics and transport properties. *Physical review letters*, 102(7), 074502, 2009
- [5] J. E. McClure, Z. Li, M. Berrill, T. Ramstad. The LBPM software package for simulating multiphase flow on digital images of porous rocks. arXiv preprint arXiv:2007.12266, 2020.
- [6] J. E. McClure, T. Ramstad, Z. Li, R. T. Armstrong, S. Berg. Modeling Geometric State for Fluids in Porous Media: Evolution of the Euler Characteristic. *Transport in Porous Media*, 133, 229 - 250, 2020
- [7] T. Ramstad, A. Kristoffersen, E. Ebeltoft. Uncertainty span for relative permeability and capillary pressure by varying wettability and spatial flow directions utilizing pore scale modelling. *E3S Web of Conferences*, 146, 01002, 2020
- [8] Y. D. Wang, T. Chung, R. T. Armstrong, J. E. McClure, T. Ramstad, P. Mostaghimi. Accelerated computation of relative permeability by coupled morphological and direct multiphase flow simulation. *Journal of Computational Physics*, 401, 108966, 2020
- [9] T. Ramstad, A. Hansen. Cluster evolution in steady-state two-phase flow in porous media. *Physical review E*, 73(2), 026306, 2006
- [10] T. Ramstad, A. Hansen. Capillary-driven instability of immiscible fluid interfaces flowing in parallel in porous media. *Physical Review E*, 78(3), 035302, 2008