

Dr. Vahid Niasar

Reader and MSc Programme Director at the Department of Chemical Engineering and Analytical Science

Leader of the Integrated Multiscale Porous Media Research (IMRES) Group

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Education and Professional Career

1996-2000 BSc, Civil Engineering, KNT University, Tehran, Iran
2000-2003 MSc, Civil-Environmental Engineering, Sharif University of Technology, Tehran, Iran
2000-2005 SCE consulting engineers, Tehran, Iran
2006-2010 PhD, Environmental Hydrogeology, Utrecht University, Utrecht, the Netherlands
2010-2011 Postdoc, Environmental Hydrogeology, Utrecht University, Utrecht, the Netherlands
2011-2014 Research Reservoir Engineer, Shell, Rijswijk, the Netherlands
2014-2018 Lecturer (Assistant Professor), University of Manchester, Manchester, UK
2018-2020 Senior Lecturer (Associate Professor), University of Manchester, Manchester, UK
2020-now Reader and MSc programme director, University of Manchester, Manchester, UK

Commitment, Appointments and Scientific Volunteer Jobs

Since 2019 Chair of the InterPore Council
Since 2017 InterPore Council Member
Since 2017 Fellow of the UK higher education academy
Since 2016 Member of IChemE
Since 2015 Founder and Chair of InterPore UK Chapter
Since 2014 External reviewer of the Czech Science Foundation, EPSRC
Since 2006 Chartered Civil Engineer, Iran
Since 2008 InterPore member
2011-2014 SPE member
2012-2014 InterPore Publicity Committees

Professional Awards, Offers and Recognitions

2016 Invited speaker at Gordon Conference, Spain
2016 Invited speaker at InterPore Conference, USA
2014 Founder and lead of Integrated Multiscale Porous Media Research (IMPRES) Group, University of Manchester
2012 Shell Recognition Award
2011 Research visit grant awarded by Princeton University, group of Prof. M.A. Celia
2011 Young Researcher InterPore-Fraunhofer Award
2010 Invited visit to the Institut Français du Pétrole
2010 PhD Cum Laude graduation
2010 Student Congress Scholarship, XVIII CMWR, Spain, June 21-24, 2010
2007 Research visit grant awarded by University of Bergen, Prof. Helge Dahle
2006 Full 4-year PhD grant from CICAT Delft University of Technology
2003 MSc thesis prize, awarded by the ministry of Housing and Urban Development of Iran.

**Additionally, 15 invited talks in national conferences, universities and research institutes
PI in 11 projects funded by EPSRC, NERC, BEIS and Industry**

Most important Publications (maximum 10)

Chronologically Sorted.

Citations: 2156, h-index: 23, i10-index: 35 [reference: google scholar]

1. Joekar-Niasar, V; Hassanizadeh, SM and Leijnse, A; Insights into the relationships among capillary pressure, saturation, interfacial area and relative permeability using pore-network modelling, *Transport in Porous Media*, 74, 201-219, 2008.
2. Joekar-Niasar, V; Hassanizadeh, S Majid; Dahle, HK; Non-equilibrium effects in capillarity and interfacial area in two-phase flow: dynamic pore-network modelling, *Journal of Fluid Mechanics*, 655, 38-71, 2010.
3. Joekar-Niasar, Vahid; Hassanizadeh, S Majid; Effect of fluids properties on non-equilibrium capillarity effects: Dynamic pore-network modeling, *International Journal of Multiphase Flow*, 37, 198-214, 2011.
4. Mahani, Hassan; Berg, Steffen; Ilic, Denis; Bartels, Willem-Bart; Joekar-Niasar, Vahid; Kinetics of low-salinity-flooding effect, *SPE Journal*, 20 (01), 8-20, 2015.
5. Karadimitriou, Nikolaos K; Joekar-Niasar, Vahid; Babaei, Masoud; Shore, Craig A; Critical Role of the Immobile Zone in Non-Fickian Two-Phase Transport: A New Paradigm, *Environmental Science & Technology*, 50(8), 4384-4392, 2016.
6. R Aziz, V Joekar-Niasar, PJ Martínez-Ferrer, OE Godinez-Brizuela, Novel insights into pore-scale dynamics of wettability alteration during low salinity waterflooding, *Nature Scientific reports* 9 (1), 1-13, 2019
7. Hasan, S., Joekar-Niasar, V., Karadimitriou, N. K., & Sahimi, M. . Saturation dependence of non-Fickian transport in porous media. *Water Resources Research*, 55, 1153– 1166, 2019
8. An, S., Hasan, S., Erfani, H., Babaei, M., & Niasar, V. Unravelling effects of the pore-size correlation length on the two-phase flow and solute transport properties: GPU-based pore-network modeling. *Water Resources Research*, 56, e2020WR027403, 2020
9. D Niblett, A Mularczyk, V Niasar, J Eller, S Holmes, Two-phase flow dynamics in a gas diffusion layer-gas channel-microporous layer system, *Journal of Power Sources* 471, 228427, 2020
10. 10. S Hasan, V Niasar, NK Karadimitriou, JRA Godinho, NT Vo, S An , Holger Steeb, Direct characterization of solute transport in unsaturated porous media using fast X-ray synchrotron microtomography, *Proceedings of the National Academy of Sciences (PNAS)*, 117 (38), 23443-23449, 2020