

YU, Haiyang

Ph.D., Associate Professor

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Education

Ph.D., Petroleum Engineering, University of Texas at Austin (USA), 2012

M.S., Thermal Engineering, Tsinghua University (China), 2008

B.S., Thermal Engineering, Dalian University of Technology (China), 2005

Research Areas and Interests

Enhanced oil recovery (CO₂, CWI, Nano-fluid)

Fluid flow mechanics in reservoir

Formation evaluation

Nanoparticle transport in porous media

Teaching

Petrophysics; Advanced Petrophysics; Technical Progress in Petroleum Engineering

Professional Experiences

2012.10-2015.06, Assistant Professor, Department of Petroleum Engineering, China University of Petroleum Beijing

2017.06-Present, Associate Professor, Department of Petroleum Engineering, China University of Petroleum-Beijing

Other Professional Affiliations

Standardization Administration of the People's Republic of China, Member (SAC/TC20/SC3)

Society of Petroleum Engineers, Member

Honors and Awards

Best Paper Award for 10th Annual Youth Academic Conference, China Petroleum Institute, 2017

Youth Outstanding Research Fellow, 2012

Best paper award for 2010 IOR conference, SPE, 2010

Selected Publications

1. Flow enhancement of water-based nanoparticle dispersion through microscale sedimentary rocks. Scientific Reports. 5, 8702, 2015.
2. Retention of Iron-Oxide Nanoparticles in Sandstone Rocks with High Salinity. Journal of Computational and Theoretical Nanoscience. 13, 5693–5698, 2016.
3. Well testing interpretation method and application in triple - layer reservoirs by polymer flooding. Materialwissenschaft und Werkstofftechnik. 46(11), 1133-1141, 2015.

4. The Effect of Injection Velocity on Injectivity Profile Reverse Phenomenon in Polymer Flooding Reservoirs. *Journal of Computational and Theoretical Nanoscience*. 12, 2817-2820, 2015.
5. Transport and retention of aqueous dispersions of superparamagnetic nanoparticles in sandstone. *Journal of Petroleum Science and Engineering*, 116, 115-123, 2014.
6. Numerical well testing interpretation method of composite model and applications in offshore reservoirs by polymer flooding. *Asian Journal of Chemistry*, 26(17), 5783-5788, 2014.
7. Numerical well testing interpretation model and applications in crossflow double-layer reservoirs by polymer flooding. *The scientific world journal*. 890874, 2014.
8. Transport and Retention of Aqueous Dispersions of Paramagnetic Nanoparticles in Reservoir Rocks. 2010 SPE Improved Oil Recovery Symposium, Tulsa, Oklahoma, USA, April. 24-28, 2010.
9. A semianalytical methodology to diagnose the locations of underperforming hydraulic fractures through pressure-transient analysis in tight gas reservoirs. *SPE J*, 22, 3, 924-939, 2017.
10. Investigation of Nanoparticle adsorption during transport in porous media. *SPE J*, 20, 4, 667-677, 2015.