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h-index (Scopus):

6

Citations (Scopus):

142

Supervised MSc Theses

#	Thesis title	By	Date
1	Pore-scale simulation of wettability effects on immiscible two-phase displacement using computational fluid dynamics	Bitra Faramarzi Babadi & Jalal Fahimpour	June 2022
2	Design and manufacturing of a HPHT micro model for underground co2 sequestration studies	Hosein Sadeghi & Jalal Fahimpour	March 2022
3	investigation of effective parameters in reduction of surfactant adsorption on carbonate rock surfaces in ASP process	Soroush Nardini & Jalal Fahimpour	March 2022
4	Application of Nanoparticles in Foam Stabilization in Presence of Oil	Yasin Noruzi & Jalal Fahimpour	March 2022
5	Application of nano-particles to improve stability and mobility control of co2 foam	Mohamad Amin Emami & Jalal Fahimpour	March 2022
6	Pore-scale modeling and permeability calculation by means of machine learning	Arman Najafi & Jalal Fahimpour	September 2021
7	Optimizing injection and production strategy in water-flooding process in an oil reservoir using artificial intelligence	Yaser Abdollahfard & Jalal Fahimpour	September 2021
8	Application of nanotechnology in improvement of gel-polymers for water shut off in hydrocarbon formations	Ali Sheidaie & Jalal Fahimpour	March 2021
9	Investigation of the effect of ion composition of low-salinity water on wet ability alteration of carbonate rocks	Peiman Vatan Khah & Jalal Fahimpour	February 2021

10	Experimental investigation of the application of chemicals and nano particles for wet ability alteration for reservoir rocks to gas-wetness for mitigating condensate banking	Toofan Farhadi & Jalal Fahimpour	February 2021
11	Reservoir rock typing based on integrating static and dynamic rock properties for improvement of modeling and simulation of carbonate reservoirs	Mahdi Ebrahim Fathabadi & Jalal Fahimpour	February 2021
12	Optimization of water alternating gas injection process by employing intelligent well technology	Seyede Fateme Afaridoun & Jalal Fahimpour	January 2021
13	Experimental study of the temperature effect on the creation of mud cake in method of design and construction of system increased temperature of the drilling fluid in the drilling flow loop	Babak Fallah & Jalal Fahimpour	February 2020
14	Experimental investigation of using CO2 in miscible hydrocarbon gas injection for enhance oil recovery (EOR)	Mona Mohammadkhani & Jalal Fahimpour	February 2020
15	Modeling of Asphaltene Deposition kinetic: Population Balance Approach	Abdolrahman Poozesh & Jalal Fahimpour	February 2020
16	Experimental investigation of improving foam stability by using chemical agents and modeling of foam displacement process in porous media	Mohammad Rezaee & Jalal Fahimpour	January 2020
17	Experimental investigation of the effective surface phenomena during carbonate-water injection in an Iranian oil reservoir	Zoha Dalal Isfehiani & Jalal Fahimpour	July 2019
18	Experimental investigation of the influential parameters on foam stability and its application in EOR	Mohammad Reza Akbari & Jalal Fahimpour	February 2019
19	Experimental investigation of Asphaltene removal by using ultrasonic technique	Armin Dabestani & Jalal Fahimpour	December 2018
20	Optimization of fracture parameters for the multi-stage acid fracturing horizontal wells in a heavy-oil carbonate reservoir	Armin Shirbazo & Jalal Fahimpour	October 2018
21	Investigating the effect of water salinity and its ionic composition during the enhanced oil recovery process in an Iranian oil reservoir	Hossein Khalili & Jalal Fahimpour	October 2018

Journal Papers

Portal Records

- Javad Siavashi, Arman Najafi, Mohammad Sharifi, Jalal Fahimpour, Mehdi Shabani, Bo Liu, Kouqi Liu, Jun Yuan, Mehdi Ostadhassan, "An insight into core flooding experiment via NMR imaging and numerical simulation", FUEL, June 2022 Vol. 318, Num. 123589, Page 0-0, June 2022,
- Abdorrez Karkevandi-Talkhooncheh, Mohammad Sharifi, Jalal Fahimpour, "Estimating reservoir properties using downhole temperature and pressure data", GEOTHERMICS, February 2022 Vol. 101, Num. 102359, Page 1-23, February 2022,
- Arman Najafi, Javad Siavashi, Mohammad Ebadi, Mohammad Sharifi, Jalal Fahimpour, Dmitry Koroteev, "Upscaling permeability anisotropy in digital sandstones using convolutional neural networks", Journal of Natural Gas Science and Engineering, September 2021 Vol. Volume 96, Num. 104263, Page 1-19, September 2021,
- Abdolrahman Poozesh, Mohammad Sharifi, Jalal Fahimpour, "Modeling of Asphaltene Deposition Kinetics", ENERGY & FUELS, June 2020 Vol. 34, Num. 8, Page 9304-9319, June 2020,



- 5 Armin Shirbazo, Jalal Fahimpour,, "A new approach to finding effective parameters controlling the performance of multi-stage fractured horizontal wells in low-permeability heavy-oil reservoirs using RSM technique", Journal of Petroleum Exploration and Production Technology, June 2020 Vol. 10, Num. 1, Page 3569-3586, June 2020,
- 6 Mohammadhossein Heidari Sureshjani, Mohamad Ahmady, Jalal Fahimpour, "Uncertainty Quantification in Heterogeneous Tight/shale Reservoirs from Analysis of Transient/Boundary-Dominated Production Data", Journal of Natural Gas Science and Engineering, May 2020 Vol. 79, Num. 103342, Page 1-14, May 2020,
- 7 Mohammadhossein Heidari Sureshjani, Mohamad Ahmady, Jalal Fahimpour, "Estimating reservoir permeability distribution from analysis of pressure/rate transient data: A regional approach", JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, March 2020 Vol. 191, Num. 107172, Page 1-16, March 2020,
- 8 Mohammadhossein Heidari Sureshjani, Mohamad Ahmady, Jalal Fahimpour, "Practical Solutions for Rate-Transient Analysis of Tight/Shale Reservoirs with Interfracture Induced Heterogeneity", SPE RESERVOIR EVALUATION & ENGINEERING, October 2019 Vol. 0, Num. 0, Page 1-20, October 2019,
- 9 Mohammadhossein Heidari Sureshjani, Mohamad Ahmady, Jalal Fahimpour, "A generalized approach for fast estimation of reservoir permeability distribution from analysis of pressure transient data", JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, July 2019 Vol. 182, Num. 106240, Page 1-13, July 2019,
- 10 Peyman Rostami, Mohammad Sharifi, , Jalal Fahimpour, "The effect of nanoparticles on wettability alteration for enhanced oil recovery: micromodel experimental studies and CFD simulation", PETROLEUM SCIENCE, April 2019 Vol. 0, Num. 0, Page 0-0, April 2019,
- 11 Peyman Rostami, Mohammad Sharifi, , Jalal Fahimpour, "Enhanced oil recovery using silica nanoparticles in the presence of salts for wettability alteration", JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, February 2019 Vol. 0, Num. 0, Page 1-12, February 2019,
- 12 Ali Nabizadeh, Meisam Adibifard, Hossein Hassanzadeh, Jalal Fahimpour, Mostafa Keshavarz Moraveji, "Computational fluid dynamics to analyze the effects of initial wetting film and triple contact line on the efficiency of immiscible two-phase flow in a pore doublet model", JOURNAL OF MOLECULAR LIQUIDS, December 2018 Vol. 273, Num. 1, Page 248-258, December 2018,
- 13 Jalal Fahimpour, Mahmoud Jamiolahmady, "Optimization of Fluorinated Wettability Modifiers for Gas/Condensate Carbonate Reservoirs", SPE JOURNAL, August 2015 Vol. 20, Num. 4, Page 729-742, August 2015,
- 14 Jalal Fahimpour, Mahmoud Jamiolahmady, "Impact of Gas-Condensate Composition and Interfacial Tension on Oil-Repellency Strength of Wettability Modifiers<https://doi.org/10.1021/ef5007098>", ENERGY & FUELS, October 2014 Vol. 28, Num. 11, Page 6714-6722, October 2014,





Conference Papers

Portal Records

- 1 Shabnam Mohammad Pour Marzbali, Yousef Rafiei, Jalal Fahimpour, "Improved waterflood performance by employing permanent down-hole control devices: Iran case study ", 6th Youth Forum of the World Petroleum Council- Future Leaders Forum, June 2019

Taught Courses

#	Course title	Description	Headlines	Date
1	Management & Preservation of Reservoirs	Introducing fundamentals of sustainable production from oil and gas reservoirs from a technical and managing perspective		Spring 2022
2	Advanced Enhanced Oil Recovery	learning about advanced techniques for improving oil recovery		Spring 2022

3	Enhanced Oil Recovery Methods From Oil Reservoirs	Introducing different EOR methods in oil reservoirs and learning important design parameters for each technique		Fall 2021
4	Transport Phenomena	Introduction to fundamentals of heat and mass transfer		Fall 2021
5	Advanced Enhanced Oil Recovery	learning about advanced techniques for improving oil recovery		Spring 2021
6	Management & Preservation of Reservoirs	Introducing fundamentals of sustainable production from oil and gas reservoirs from a technical and managing perspective		Spring 2021