

List of publications

Journal and Conference Papers

- Fracturing and permeability enhancement with laser technology employing fuzzy logic, Journal of Petroleum Science and Engineering, Volume 188, May 2020, 106830, <https://doi.org/10.1016/j.petrol.2019.106830>
- Improving TC drill bit's efficiency and resistance to wear by Graphene coating, Journal of Petroleum Technology (Under Review)
- Temporal assessment of oil-spill environmental effects post Gulf War employing Satellite imagery and fuzzy logic, Journal of Petroleum Science and Engineering (Under Review).
- Application of Combinatory Pulsed COIL and ND: YAG Lasers to Increase Heavy Oil Recovery and Improve Rock Permeability, World Congress on Petroleum and Refinery, Brisbane, Australia, published in Journal of Petroleum and Environmental Biotechnology, 2016, (<https://www.longdom.org/proceedings/application-of-nd-yag-laser-to-improve-rock-permeability-and-increase-heavy-oil-recovery-employing-fuzzy-logic-32550.html>)
- An Optimization Approach to Predict Crude Oil Prices, International Journal of Economics, Finance and Management, Volume 2, No. 6, 2013 (http://www.ejournalofbusiness.org/archive/vol2no6/vol2no6_1.pdf)
- Oil Slicks and Coastal Zones Post Gulf-War; A 20-Years Assessment, Employing High-Resolution Satellite Imagery, SPE /APPEA international conference on HSE, 11-13 September 2012, Perth, Western Australia (<https://doi.org/10.2118/156053-MS>)
- Application of Remote Sensing In Two Southern Iranian Oil Fields, The First International Applied Geological Congress, Azad University, Mashhad Branch, Iran, published in semantic scholar, 2011 (<https://pdfs.semanticscholar.org/4307/2ac591d5a4fc14798faffa8444b571236041.pdf>)
- Thermal-Based Hydrocarbon Exploration Employing ASTER and Fuzzy Logic, Journal of Upstream Oil and Gas Technology (Under Review)
- Advanced new technologies for hydrocarbon exploration, Engineering Colloquium, 2009, Perth Western Australia
- ASTER, a potential satellite for hydrocarbon prospecting, SPE Annual technical conference and exhibition (ATCE), Denver, Colorado, USA 2008
- Satellite-based petroleum exploration, SPE Regional Student Contest, SPE EOR conference, "Oil and Gas West Asia", Muscat, Oman, 2008

- Thermal anomalies and petroleum exploration using ASTER, SPE Middle East, SPE Regional Student Contest Tehran Iran 2007
- Remote Sensing, Fuzzy Logic and GIS in Petroleum Exploration, Conference Proceedings, SPE International Conference and Exhibition, Adelaide, South Australia, 2006 (<https://doi.org/10.2118/101040-MS>)
- Petroleum Exploration, New Innovative Approach, "American Association of Petroleum Geologists (AAPG) Asia Pacific Petroleum Exploration Conference", Poster Presentation, Perth, Western Australia, 2006
- Decision support system, sensitivity analysis & risk management in project planning, Mining Symposium, Tehran Polytechnic University, April 2002
- Fuzzy logic, decision making and energy exploration and evaluation, 21th Geosciences symposium, Geological survey of Iran, Tehran, Iran, 2002.
- Integration of mineral exploration data, Tete Province, Mozambique, Master's thesis, ITC, The Netherlands, 2001.
- Off-shore Mineral Prospecting Methods, Symposium of Deep Ocean Mineral Resource Exploration Methods, Hormozgan University, Hormoz research center, Hormozgan province, Iran, 1999.

Journal Publications Reviewed as Peer-Reviewer

- Influence of nano-TiO₂ on the wellbore shear bond strength at cement-formation interface, Journal of upstream oil and gas technology, UPSTRE-D-20-00014, May 2020
- Gaining Perspective on Unconventional Well Design Choices through Play-level Application of Machine Learning Modeling; UPSTRE-D-19-00001, Journal of upstream oil and gas technology, October 2019
- Fuzzy Logic coupled with exhaustive search algorithm for forecasting of petroleum economic parameters; PETROL 14191, Journal of Petroleum Science and Engineering, Elsevier Publications, November 2018
- Fuzzy Logic applied to Value of Information assessment in Oil and Gas projects; PETROL11502, Journal of Petroleum Science and Engineering, Elsevier Publications, December 2017
- Intelligent methods for predicting Nuclear Magnetic Resonance of porosity and permeability by conventional well logs: case study of Saharan Field; AJGS-D-17-01153R1, Arabian Journal of Geosciences, Oct 2017

- Application of hybrid Adaptive Neuro-Fuzzy Inference System in well placement optimization; PETROL9547R1, Journal of Petroleum Science and Engineering, Elsevier Publications, August 2017
- Improved identification of pay zones in complex environments through utilizing wavelet analysis on NMR log data; PETROL10320, Journal of Petroleum Science and Engineering, Elsevier Publications, July 2017
- A Novel Approach to Total Organic Carbon Content Prediction in Shale Gas Reservoirs with Well Logs Data Based on Least Square Support Vector Machine and Mean Impact Value; PETROL10259, Journal of Petroleum Science and Engineering, Elsevier Publications, May 2017
- A Unified Optimal Model for Topological Structure of Production Well Gathering Pipeline Network; PETROL8630, Journal of Petroleum Science and Engineering, Elsevier Publications, Dec. 2016
- Automating Biostratigraphy in Oil and Gas Exploration: Introducing GeoDAISY; PETROL8401, Journal of Petroleum Science and Engineering, Elsevier Publications, June 2016
- New Method to do Reservoir Characterization by Using Image Log and Formation Testing Logs, Journal of Petroleum Science and Engineering, Elsevier Publications, April 2015
- Nero-Bayesian facies inversion of prestack seismic data from a carbonate reservoir in Iran, Journal of Petroleum Science and Engineering, Elsevier Publications, May 2014
- Nano Carboxymethyl Cellulose/Polystyrene Core-Shell in Drilling Fluid, Journal of Petroleum Science and Engineering, Elsevier Publications, March 2014
- Prediction of Non-Hydrocarbon Gas Components in Multistage Separator by using Hybrid Computational Intelligence Models, Journal of Petroleum Science and Engineering, Elsevier Publications, October 2013.
- Determination of Water Saturation by Angular Competitive Neural Network, Journal of Petroleum Science and Engineering, Elsevier Publication, March 2012
- The Impact of Missing Input Parameters on the Performance of Permeability Prediction using Soft Computing Tools, Journal of Petroleum Science and Engineering, Elsevier Publications, June 2012
- Permeability estimation from well log data using a hybrid genetic algorithm and artificial neural network system in an Iranian carbonate reservoir, Journal of Petroleum Science and Engineering, Elsevier Publications, September 2012