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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Pennsylvania State University, Yer ve Mineral Bilimleri Fakültesi, Petrol ve Doğalgaz Mühendisliği Bölümü, Amerika Birleşik Devletleri 2005 - 2008
Yüksek Lisans, West Virginia University, Mühendislik ve Mineral Kaynaklar Fakültesi, Petrol ve Doğalgaz Mühendisliği Bölümü, Amerika Birleşik Devletleri 2003 - 2005
Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol Ve Doğal Gaz Mühendisliği Bölümü, Türkiye 1999 - 2003

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Teknik Üniversitesi, Maden, Petrol Ve Doğalgaz Mühendisliği, 2020 - Devam Ediyor
Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol Ve Doğal Gaz Mühendisliği Bölümü, 2018 - 2020
Dr.Öğr.Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol Ve Doğal Gaz Mühendisliği Bölümü, 2013 - 2018
Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol Ve Doğal Gaz Mühendisliği Bölümü, 2012 - 2013

Akademik İdari Deneyim

Program Koordinatörü, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol Ve Doğal Gaz Mühendisliği Bölümü, 2017 - 2020

Yönetilen Tezler

Kök M. V., Artun F. E., Development of a screening model for the cyclic steam injection (CSI) process, Yüksek Lisans, G.YALGIN(Öğrenci), 2018
Durgut İ., Artun F. E., Development of a screening model for polymer flooding in multi-layer reservoirs, Yüksek Lisans, N.ZAREPAKZAD(Öğrenci), 2018

Jüri Üyelikleri

Ödül, SPE Uluslararası Formasyon Değerlendirme Ödülü Komitesi Başkanlığı, 2019, Petrol Mühendisleri Topluluğu (SPE), Ekim, 2019
Ödül, SPE Uluslararası Formasyon Değerlendirme Ödülü Komitesi Jüri Uyeliği, 2016-2019, Petrol Mühendisleri Topluluğu (SPE), Ekim, 2016

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Understanding the Controlling Factors for CO2 Sequestration in Depleted Shale Reservoirs Using Data Analytics and Machine Learning**
Baabbad H. K. H., Artun F. E., Kulga B.
ACS OMEGA, cilt.7, sa.24, ss.20845-20859, 2022 (SCI-Expanded)

II. **Machine-Learning Approach for Forecasting Steam-Assisted Gravity-Drainage Performance in the Presence of Noncondensable Gases**
Canbolat S., Artun F. E.
ACS OMEGA, cilt.7, ss.21119-21130, 2022 (SCI-Expanded)

III. **Analytical modeling of flow regimes during cyclic CO2 injection in hydraulically fractured tight reservoirs for enhanced oil recovery**
Mugisha J., Al-Rbeawi S., Artun F. E.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.201, 2021 (SCI-Expanded)

IV. **A comparative analysis and rapid performance prediction of polymer flooding process by coupling reservoir simulation with neural networks**
Zarepakzad N., Artun F. E., DURGUT İ.
INTERNATIONAL JOURNAL OF OIL GAS AND COAL TECHNOLOGY, cilt.27, sa.3, ss.227-246, 2021 (SCI-Expanded)

V. **Performance assessment and forecasting of cyclic gas injection into a hydraulically fractured well using data analytics and machine learning**
Artun E.
Journal of Petroleum Science and Engineering, cilt.195, 2020 (SCI-Expanded)

VI. **Selection of candidate wells for re-fracturing in tight gas sand reservoirs using fuzzy inference**
Artun E., Kulga B.
PETROLEUM EXPLORATION AND DEVELOPMENT, cilt.47, sa.2, ss.413-420, 2020 (SCI-Expanded)

VII. **Improving Oil-Rate Estimate in Capacitance/Resistance Modeling Using the Y-Function Method for Reservoirs Under Waterflood**
Temizel C., Artun F. E., Yang Z.
SPE RESERVOIR EVALUATION & ENGINEERING, cilt.22, sa.3, ss.1161-1171, 2019 (SCI-Expanded)

VIII. **Fishbone type horizontal wellbore completion: A study for pressure behavior, flow regimes, and productivity index**
Al-Rbeawi S., Artun F. E.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.176, ss.172-202, 2019 (SCI-Expanded)

IX. **Characterization of tight-gas sand reservoirs from horizontal-well performance data using an inverse neural network**

Kulga B., Artun F. E., Ertekin T.
JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING, cilt.59, ss.35-46, 2018 (SCI-Expanded)

X. **Characterizing interwell connectivity in waterflooded reservoirs using data-driven and reduced-physics models: a comparative study**
Artun F. E.
NEURAL COMPUTING & APPLICATIONS, cilt.28, sa.7, ss.1729-1743, 2017 (SCI-Expanded)

XI. **Development of a data-driven forecasting tool for hydraulically fractured, horizontal wells in tight-gas sands**
Kulga B., Artun F. E., Ertekin T.
COMPUTERS & GEOSCIENCES, cilt.103, ss.99-110, 2017 (SCI-Expanded)

XII. **Modeling, analysis, and screening of cyclic pressure pulsing with nitrogen in hydraulically fractured wells**
Artun F. E., Khoei A. A., Kose K.
PETROLEUM SCIENCE, cilt.13, sa.3, ss.532-549, 2016 (SCI-Expanded)

XIII. **A pattern-based approach to waterflood performance prediction using knowledge management tools and classical reservoir engineering forecasting methods**
Artun F. E., Vanderhaeghen M., Murray P.
INTERNATIONAL JOURNAL OF OIL GAS AND COAL TECHNOLOGY, cilt.13, sa.1, ss.19-40, 2016 (SCI-Expanded)

XIV. **Designing cyclic pressure pulsing in naturally fractured reservoirs using an inverse looking recurrent neural network**
Artun F. E., Ertekin T., Watson R., Miller B.
COMPUTERS & GEOSCIENCES, cilt.38, sa.1, ss.68-79, 2012 (SCI-Expanded)

XV. **Development of universal proxy models for screening and optimization of cyclic pressure pulsing in naturally fractured reservoirs**
Artun F. E., Ertekin T., Watson R., Al-Wadhahi M.
JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING, cilt.3, sa.6, ss.667-686, 2011 (SCI-Expanded)

XVI. **Performance and Economic Evaluation of Cyclic-Pressure Pulsing in Naturally Fractured Reservoirs**
Artun F. E., Ertekin T., Watson R., Al-Wadhahit M., Miller B.
JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY, cilt.50, ss.24-36, 2011 (SCI-Expanded)

XVII. **Intelligent seismic inversion workflow for high-resolution reservoir characterization**
Artun F. E., Mohaghegh S.
COMPUTERS & GEOSCIENCES, cilt.37, sa.2, ss.143-157, 2011 (SCI-Expanded)

XVIII. **Performance Evaluation of Cyclic Pressure Pulsing in a Depleted, Naturally Fractured Reservoir with Stripper-Well Production**
Artun F. E., Ertekin T., Watson R., Miller B.
PETROLEUM SCIENCE AND TECHNOLOGY, cilt.29, sa.9, ss.953-965, 2011 (SCI-Expanded)

XIX. **Development and testing of proxy models for screening cyclic pressure pulsing process in a depleted, naturally fractured reservoir**
Artun F. E., Ertekin T., Watson R., Miller B.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.73, ss.73-85, 2010 (SCI-Expanded)

XX. **A Parametric Study on the Benefits of Drilling Horizontal and Multilateral Wells in Coalbed Methane Reservoirs**
Maricic N., Mohaghegh S. D., Artun F. E.
SPE RESERVOIR EVALUATION & ENGINEERING, cilt.11, sa.6, ss.976-983, 2008 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **Probabilistic assessment of geothermal resources and their development in Dikili-İzmir region**
Turan A., Artun F. E., Saner S.
SN Applied Sciences, cilt.3, sa.6, 2021 (ESCI)

II. **Assessment of Carbon Footprint of a Campus with Sustainability Initiatives**
Artun E.
GAZI UNIVERSITY JOURNAL OF SCIENCE, cilt.34, sa.3, ss.652-663, 2021 (ESCI)

Kitap & Kitap Bölümleri

I. **Oilfield data mining**
Mohaghegh S., Artun F. E.
Exploration and Production of Petroleum and Natural Gas, M.R. Riazi, Editör, ASTM : American Society for Testing and Materials , Pennsylvania, ss.177-196, 2016

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Analytical Modeling of Flow Regimes During Cyclic CO2 Injection in Hydraulically Fractured Tight Reservoirs for EOR**
MUGISHA J., AL RBEAWI S., ARTUN F. E.
82nd EAGE Annual Conference Exhibition, 8 - 11 Aralık 2020
II. **Comparison of machine learning algorithms for the development of a forecasting tool for cyclic gas injection in hydraulically-Fractured wells**
Seilkhanov A., Otynshin D., Novopokrovskiy G., Artun E.
SPE Annual Caspian Technical Conference 2020, CTC 2020, Virtual, Online, 21 - 22 Ekim 2020
III. **Candidate well selection for re-fracturing in tight-gas sand reservoirs using artificial intelligence**
ARTUN F. E., KULGA İ. B.
AAPG/SPE Eastern Section Joint Meeting, Pittsburgh, Amerika Birleşik Devletleri, 7 - 11 Ekim 2018
IV. **Development of a data-driven operational design tool for CO2 sequestration in shale gas reservoirs**
KULGA İ. B., ARTUN F. E., Ertekin T.
AAPG/SPE Eastern Section Joint Meeting, Pittsburgh, Amerika Birleşik Devletleri, 7 - 11 Ekim 2018
V. **Design and Development of Data-Driven Screening Tools for Enhanced Oil Recovery Processes**
Yalgın G., Zarepakzad N., ARTUN F. E., DURGUT İ., KÖK M. V.
SPE Western Regional Meeting, 22 - 26 Nisan 2018
VI. **Probabilistic assessment of tight-gas sands using a data-driven modeling approach**
ARTUN F. E., KULGA İ. B., Ertekin T.
AAPG Eastern Section Meeting, Morgan Town, Amerika Birleşik Devletleri, 24 - 27 Ekim 2017
VII. **Time-dependent performance evaluation of cyclic injection of gas mixtures into hydraulically-fractured wells in Appalachian sandstones**
ARTUN F. E.
AAPG Eastern Section Meeting, 24 - 27 Eylül 2017
VIII. **Cyclic pressure pulsing A promising method to improve recovery from hydraulically fractured stripper wells of Appalachian Basin**
ARTUN F. E., Irgav O., Khairzhanov N.
AAPG Eastern Section Meeting, Lexington, Kentucky, Amerika Birleşik Devletleri, 25 - 27 Eylül 2016
IX. **Characterizing Reservoir Connectivity and Forecasting Waterflood Performance Using Data Driven and Reduced Physics Models**
ARTUN F. E.
SPE Western Regional Meeting, Anchorage, Alaska, Amerika Birleşik Devletleri, 23 - 26 Mayıs 2016
X. **Intersecting fracture geometries in control of geothermal spring occurrences in circumferences of the madra mountain, aegean region of Turkey**
Turan A., Saner S., Artun E.
Geothermal Resources Council 2016 Annual Meeting - Geothermal Energy Here and Now: Sustainable, Clean,

Flexible, GRC 2016, California, Amerika Birleşik Devletleri, 23 - 26 Ekim 2016, cilt.40, ss.611-619

XI. **Modeling and analysis of cyclic pressure pulsing in hydraulically fractured wells**
ARTUN F. E., Aghazadeh Khoei A., Kose K.
20th International Petroleum and Natural Gas Congress and Exhibition of Turkey (IPETGAS), Ankara, Türkiye, 27 - 29 Mayıs 2015

XII. **A Pattern Based Approach to Waterflood Performance Prediction Using Knowledge Management Tools and Classical Reservoir Engineering Forecasting Methods**
ARTUN F. E., Vanderhaeghen M., Murray P.
SPE Western North American and Rocky Mountain Joint Meeting, Denver, Colorado, Amerika Birleşik Devletleri, 14 - 16 Nisan 2014

XIII. **A case study for understanding waterflood performance using analytical tools**
Fernandes B., Cabral Y., ARTUN F. E.
19th International Petroleum and Natural Gas Congress and Exhibition of Turkey (IPETGAS), Ankara, Türkiye, 15 - 17 Mayıs 2013

XIV. **Performance and Economic Evaluation of Cyclic Pressure Pulsing in Naturally Fractured Reservoirs**
ARTUN F. E., Ertekin T., Watson R., AlWadhahi M., Miller B.
SPE EOR Conference at Oil & Gas West Asia, Muscat, UMMAN, 11 - 13 Nisan 2010

XV. **Development of Universal Proxy Models for Screening and Optimization of Cyclic Pressure Pulsing in Naturally Fractured Reservoirs**
ARTUN F. E., Ertekin T., Watson R., AlWadhahi M.
International Petroleum Technology Conference, Doha, Qatar, 7 - 09 Aralık 2009

XVI. **Optimized Design of Cyclic Pressure Pulsing in a Depleted Naturally Fractured Reservoir**
ARTUN F. E., Ertekin T., Watson R., Miller B.
SPE Eastern Regional/AAPG Eastern Section Joint Meeting, Pittsburgh, Pennsylvania, USA, Amerika Birleşik Devletleri, 11 - 15 Ekim 2008

XVII. **A Parametric Study on the Benefits of Drilling Horizontal and Multilateral Wells in Coalbed Methane Reservoirs**
Maricic N., Mohaghegh S., ARTUN F. E.
SPE Annual Technical Conference and Exhibition, Dallas, Texas, Amerika Birleşik Devletleri, 9 - 12 Ekim 2005

XVIII. **Intelligent seismic inversion From surface seismic to well logs via VSP**
ARTUN F. E., Mohaghegh S., Toro J., Wilson T., Sanchez A.
AAPG Eastern Section Meeting, Morgantown, WV, Amerika Birleşik Devletleri, 18 - 20 Eylül 2005

XIX. **Reservoir Characterization Using Intelligent Seismic Inversion**
ARTUN F. E., Mohaghegh S., Toro J., Wilson T., Sanchez A.
SPE Eastern Regional Meeting, Morgantown, West Virginia, Amerika Birleşik Devletleri, 14 - 16 Eylül 2005

Bilimsel Dergilerdeki Faaliyetler

Journal of Natural Gas Science and Engineering, Yardımcı Editör/Bölüm Editörü, 2015 - Devam Ediyor
International Journal of Oil Gas and Coal Technology, Yayın Kurul Üyesi, 2012 - 2020

Metrikler

Yayın: 44
Atıf (WoS): 151
Atıf (Scopus): 252
H-İndeks (WoS): 9
H-İndeks (Scopus): 10

Akademi Dışı Deneyim

Quantum Reservoir Impact
Quantum Reservoir Impact
Chevron Energy Technology Company
Chevron Energy Technology Company
EQT Corporation