

Prof. SERHAT AKIN

Personal Information

Office Phone: [+90 312 210 4892](tel:+903122104892)

Email: serhat@metu.edu.tr

Web: <https://avesis.metu.edu.tr/serhat>

International Researcher IDs

ScholarID: IORN12YAAAAJ

ORCID: 0000-0002-6865-9253

Publons / Web Of Science ResearcherID: D-1356-2010

ScopusID: 7005263379

Yoksis Researcher ID: 12090

Biography

Prof. Dr. Akin, 1997'de ODTÜ Petrol ve Doğal Gaz Mühendisliği bölümünden doktora derecesi aldı. Daha sonra Stanford Üniversitesi'nde 1997-1998'de Doktora Sonrası Araştırmacı olarak çalışan Dr. Akin 2002'de Doçent ünvanı ve kadrosunu aldı. 2006 yılında Blaustein ziyaretçi profesörü olarak Stanford Üniversitesi Enerji Kaynakları Mühendisliği Bölümünde bulunduktan sonra 2008'de ODTÜ'de profesörlük kadrosuna atanmıştır. Çok sayıda endüstri ve kamu projesinde araştırmacı ve yönetici olarak çalışan Dr. Akin'ın 130 dan fazla makale, teknik rapor ve tebliği bulunmaktadır. *SPE Reservoir Evaluation & Engineering, The Scientific Journal, International Journal of Petroleum Science and Technology, the Open Petroleum Engineering Journal* ve *Turkish Journal of Oil and Gas* dergilerinde editörler kurulunda görev alan Dr. Akin 2001, 2002, 2004 ve 2014'te "SPE Outstanding Technical Editor", 2004 ODTÜ Prof. Dr.Tarık Somer ve 2001 ile 2015 yılları arasında ODTÜ Akademik Performans ödülleri almıştır. Dr. Akin'ın rezervuar mühendisliği, rezervuar simülasyonu, izleyici (tracer) ve kuyu testleri, geliştirilmiş petrol üretimi (EOR) konularında sektörün önde gelen dergilerinde ve toplantılarında yayınları bulunmaktadır.

Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Petrol Mühendisliği (Dr), Turkey 1991 - 1997

Foreign Languages

English, C1 Advanced

Research Areas

Petroleum And Natural Gas Engineering, Reservoir Engineering and Recovery Methods, Jeothermal Reservoir Engineering, Drilling Techniques and Control Methodologies, Production of Oil and Gas, Underground Storage, Alternate Fuels and Energy Resources, Ecology and Pollution, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2008 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2002 - 2008

Professor, Stanford University, Mühendislik, Petrol Mühendisliği, 2006 - 2006

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 1999 - 2002

Expert, Stanford University, Mühendislik, Petrol Mühendisliği, 1997 - 1998

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 1989 - 1997

Academic and Administrative Experience

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2015 - 2018

Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2003 - 2010

Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2000 - 2001

Courses

RESEARCH METHODS AND ETHICS IN PETROLEUM AND NATURAL GAS ENGINEERING, Postgraduate, 2019 - 2020

FLUID FLOW THROUGH POROUS MEDIA, Postgraduate, 2019 - 2020

PETROLEUM ENGINEERING DESIGN I, Undergraduate, 2018 - 2019

Advising Theses

AKIN S., Modeling transient flow in fractured shale reservoirs, Doctorate, U.KILIÇASLAN(Student), 2021

AKIN S., Geochemical modeling of NCG injection in a geothermal well using doublet well model, Postgraduate, B.İLGİN(Student), 2021

AKIN S., Mathematical modelling of geothermal carbon dioxide production in a specific field in Turkey., Postgraduate, B.Kumsal(Student), 2020

AKIN S., Matrix-fracture transfer in non-isothermal conditions, Doctorate, Y.Tavakkoli(Student), 2020

AKIN S., Application of fluorescent melamine resin microspheres for use as a geothermal tracer, Postgraduate, M.SALAR(Student), 2018

AKIN S., Discrete fracture network modeling of Alaşehir geothermal field, Postgraduate, H.AYDIN(Student), 2018

AKIN S., Simulation of geothermal reservoirs with high amount of carbon dioxide, Postgraduate, S.KÜÇÜK(Student), 2018

AKIN S., Application of artificial neural networks to predict the downhole inclination in directionally drilled geothermal wells, Postgraduate, T.BURAK(Student), 2018

AKIN S., Experimental investigation of the effect of temperature on friction pressure loss of polymeric drilling fluid through vertical concentric annulus, Postgraduate, K.ONUR(Student), 2018

AKIN S., Discrete fracture network modeling in Alaşehir geothermal field, Postgraduate, H.Aydın(Student), 2018

AKIN S., Multiscale pore structure characterization and pore network modeling of Middle East carbonates, Doctorate, S.ASLI(Student), 2017

AKIN S., Optimization of CO₂ EOR and storage design under uncertainty, Doctorate, S.Bender(Student), 2016

AKIN S., Modeling of surge and swab pressure of yield power law fluids, Postgraduate, Ö.ERGE(Student), 2016

AKIN S., Uncertainty quantification by using stochastic approach in pore volume calculation for geothermal reservoir, Postgraduate, E.GÜREL(Student), 2016

AKIN S., Optimization of CO₂ eor and storage design under uncertainty, Doctorate, S.BENDER(Student), 2016

AKIN S., The Use of capacitance-resistive models for estimation of interwell connectivity & heterogeneity in a waterflooded reservoir: a case study, Postgraduate, M.Erkin(Student), 2015

AKIN S., Investigation of the effectiveness of electrical and microwave heating for oil shale extraction, Postgraduate, S.GÜVEN(Student), 2015

AKIN S., Discrete fracture network modeling and gel injection simulation in fractured carbonates, Postgraduate, A.SOLTANIEH(Student), 2015

AKIN S., The use of capacitance-resistive models for estimation of interwell connectivity and heterogeneity in a waterflooded reservoir: A case study, Postgraduate, M.ERKİN(Student), 2015

AKIN S., Discrete fracture network modeling in a carbon dioxide flooded heavy oil reservoir, Postgraduate, J.SHIRIYEV(Student), 2014

AKIN S., An experimental study on usage of hollow glass spheres (HGS) for reducing mud density in low pressure reservoirs and lost circulation zones, Postgraduate, T.ÇAĞRI(Student), 2014

AKIN S., Solar generated steam injection in heavy oil reservoirs, Postgraduate, C.Afşar(Student), 2014

AKIN S., Steam generated steam injection in heavy oil reservoirs, Postgraduate, C.AFŞAR(Student), 2014

AKIN S., YAMAN İ. Ö., An experimental study on the effects of different chloride sources on the properties of API class G cement, Postgraduate, Ö.RAMAZANOĞLU(Student), 2014

AKIN S., Quantification of the uncertainties in shale gas reservoirs, a case study for Dadas shale formation, Postgraduate, G.YUSUF(Student), 2013

AKIN S., Uncertainties in reservoir limit test results: Effect of input parameters, Postgraduate, G.ALTINBAY(Student), 2013

AKIN S., Quantification and analysis of uncertainties in reservoir modeling using multiple-point geostatistics, Doctorate, M.MOHIELDIN(Student), 2012

AKIN S., YAMAN İ. Ö., Utilization of GGBFS blended cement pastes in well cementing, Postgraduate, B.ALP(Student), 2012

AKIN S., Prediction of non-darcy flow effects on fluid flow through porous media based on field data, Doctorate, E.ALP(Student), 2012

AKIN S., Uncertainty evaluation through ranking of simulation models for Bozova oil field, Postgraduate, M.MEHLİKA(Student), 2011

AKIN S., Analyzing reservoir thermal behavior by using thermal simulation model (Sector model in stars), Postgraduate, H.SAMADOV(Student), 2011

AKIN S., A study of brightwater injection efficiency on sector model using stars software, Postgraduate, N.PASHAYEV(Student), 2011

AKIN S., Well test analysis in the presence of carbon dioxide in fractured reservoirs, Postgraduate, T.BAYRAM(Student), 2011

AKIN S., Estimation of the formation temperature from the inlet and outlet mud temperatures while drilling geothermal formations, Postgraduate, S.TEKİN(Student), 2010

AKIN S., Feasibility study of sequestration of carbon dioxide in geological formations, Postgraduate, Ç.GÜLTEKİN(Student), 2010

AKIN S., PARLAKTUNA M., Integration of real-time and dynamic surveillance data in managing Azeri-Chirag-Guneshli field, Postgraduate, S.SADİKHOV(Student), 2010

AKIN S., PARLAKTUNA M., Numerical modeling of Balçova geothermal field, Postgraduate, C.POLAT(Student), 2010

AKIN S., PARLAKTUNA M., Assessment of reservoir rock and fluid data for black oil simulation?A case study, Postgraduate, O.SUSUZ(Student), 2009

AKIN S., PARLAKTUNA M., Numerical simulation of Germencik geothermal field, Postgraduate, A.HAMENDİ(Student), 2009

AKIN S., Development of a predictive model for carbon dioxide sequestration in deep saline carbonate aquifers, Postgraduate, S.ANBAR(Student), 2009

AKIN S., Prediction of multiphase flow properties from nuclear magnetic resonance imaging, Doctorate, T.KARAMAN(Student), 2009

AKIN S., Investigation of productivity of heavy oil carbonate reservoirs and oil shales using electrical heating methods, Doctorate, B.HASÇAKIR(Student), 2008

AKIN S., Designing lost circulation pills for polymer based drill-in fluids, Postgraduate, A.KAHVEÇİOĞLU(Student), 2008

AKIN S., Economics of carbon dioxide sequestration in a mature oil field, Postgraduate, A.SUAD(Student), 2008

AKIN S., Pore network modeling of fissured and vuggy carbonates, Postgraduate, S.Erzeybek(Student), 2008

AKIN S., Uncertainty in well test and core permeability analysis, Postgraduate, C.HAPA(Student), 2008

AKIN S., Pore network modelling of fissured and vuggy carbonates, Postgraduate, S.ERZEYBEK(Student), 2008

AKIN S., Enhancing petroleum recovery from heavy oil fields by microwave heating, Postgraduate, Ç.ACAR(Student), 2007

AKIN S., Lattice boltzmann auromaton model to simulate fluid flow In synthetic fractures, Postgraduate, E.EKER(Student), 2005

AKIN S., Experimental and numerical investigation of carbon dioxide sequestration in deep saline aquifers, Postgraduate, Ö.İZGEÇ(Student), 2005

AKIN S., Polymer/oil relative permeabilities in carbonate reservoirs, Postgraduate, İ.CANKARA(Student), 2005

KÖK M. V., AKIN S., Database development for diamond core dirilling bit selection using field data, Postgraduate, L.GÜZELOĞLU(Student), 2005

AKIN S., Lattice boltzmann automaton model to simulate fluid flow in synthetic fractures, Postgraduate, E.Eker(Student), 2005

AKIN S., Comprehensive modeling of gas condensate relative permeability and its influence on field performance, Doctorate, H.ÇALIŞGAN(Student), 2005

AKIN S., Use of pro scale simulators to understand the effects of wettability on miscible carbon dioxide flooding and injectivity, Postgraduate, İ.Uzun(Student), 2005

AKIN S., Comprehensive modelling of gas condensate relative permeability and its influence on field performance, Doctorate, H.Çalışgan(Student), 2005

AKIN S., Use of pore scale simulators to understand the effects of wettability on miscible carbon dioxide flooding and injectivity, Postgraduate, İ.UZUN(Student), 2005

AKIN S., PARLAKTUNA M., Characterization of Kızılcahamam geothermal field by tracer testing, Postgraduate, T.KAYA(Student), 2005

AKIN S., Optimization of well placement in complex carbonate reservoirs using artificial intelligence, Postgraduate, İ.Uraz(Student), 2004

AKIN S., Optimiziation of well placement in complex cabonate reservoirs using artificial intelligence, Postgraduate, İ.URAZ(Student), 2004

AKIN S., Risk assessment of petroleum transportation pipeline in some Turkish oil fields, Postgraduate, G.ÖĞÜTÇÜ(Student), 2004

AKIN S., KÖK M. V., Estimation of expected monetary values of selected Turkish oil fields using two different risk assessment methods, Postgraduate, T.EGEMEN(Student), 2003

AKIN S., Application of Vapex (vapour extraction) process on carbonate reservoirs, Postgraduate, Y.YILDIRIM(Student), 2003

AKIN S., Automated porosity measurement using image analysis techniques, Postgraduate, C.ULAŞ(Student), 2002

TOPAL T., AKIN S., Assessment of slope stability in Ankara clay: A case study along Ankara-Eskişehir e90 highway,, Postgraduate, M.Bora(Student), 2002

PARLAKTUNA M., AKIN S., Characterization and modeling of Kızıldere geothermal field, Postgraduate, K.Yeltekin(Student), 2001

AKIN S., Estimation of fracture relative permeability and capillary pressure functions from unsteady state displacement experiments, Postgraduate, A.KARAMAN(Student), 2001

AKIN S., A Study of steam assisted gravity drainage performance in the presence of non-condensable gases, Postgraduate, S.CANBOLAT(Student), 2001

AKIN S., Estimation of fracture relative permeability aand capillary pressure functions from unsteady state displacement experiments, Postgraduate, A.Karaman(Student), 2001

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, September, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, June, 2019

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, June, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Numerical modeling of the CO₂ injection in the Kizildere geothermal field using multiple inter-well tracer tests**
SEVİNDİK D. B., Erol S., AKIN S.
GEO THERMICS, vol.119, 2024 (SCI-Expanded)
- II. **Experimental study and kinetic modeling of high temperature and pressure CO₂ mineralization**
Berndsen M., Erol S., Akin T., AKIN S., Nardini I., Immenhauser A., Nehler M.
International Journal of Greenhouse Gas Control, vol.132, 2024 (SCI-Expanded)
- III. **CO₂ Dissolution in the reservoir brine: An experimental and simulation-based approach**
Aydin H., Akin S.
Geothermics, vol.113, 2023 (SCI-Expanded)
- IV. **Experimental and numerical investigation of mining assisted heavy oil production for the Bati Raman field, Turkey**
Canbolat S., Öztürk H., Akin S.
GEOENERGY SCIENCE AND ENGINEERING, vol.223, 2023 (SCI-Expanded)
- V. **Modelling reinjection of two-phase non-condensable gases and water in geothermal wells**
Leontidis V., Niknam P. H., Durgut İ., Talluri L., Manfrida G., Fiaschi D., Akin S., Gainville M.
APPLIED THERMAL ENGINEERING, vol.223, pp.1-20, 2023 (SCI-Expanded)
- VI. **Update for reactive transport modeling of the Kızildere geothermal field to reduce uncertainties in the early inspections**
Erol S., Akin T., AKIN S.
Turkish Journal of Earth Sciences, vol.32, no.4, pp.541-554, 2023 (SCI-Expanded)
- VII. **Flow and tracer transport in a single fracture at non-isothermal conditions**
Tavakkoli Osguei Y., Akin S.
ARABIAN JOURNAL OF GEOSCIENCES, vol.15, no.1723, pp.1-16, 2022 (SCI-Expanded)
- VIII. **Advanced workflow for multi-well tracer test analysis in a geothermal reservoir**
EROL S., Bayer P., AKIN T., AKIN S.
GEO THERMICS, vol.101, 2022 (SCI-Expanded)
- IX. **Fluid-CO₂ injection impact in a geothermal reservoir: Evaluation with 3-D reactive transport modeling**
EROL S., AKIN T., Baser A., Saracoglu O., AKIN S.
GEO THERMICS, vol.98, 2022 (SCI-Expanded)
- X. **Exploitation of Bati Raman field using advanced thermal methods: MAHOP VS. CSHP**
Canbolat S., Öztürk H., Akin S.
Journal of Petroleum Science and Engineering, vol.208, 2022 (SCI-Expanded)
- XI. **Experimental and numerical study of flow and thermal transport in fractured rock**
Tavakkoli Osguei Y., AKIN S.
HEAT AND MASS TRANSFER, vol.57, no.6, pp.1053-1068, 2021 (SCI-Expanded)
- XII. **Transient shape factors for dual-porosity simulation of tight rocks**
Kilicaslan U., AKIN S.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.200, 2021 (SCI-Expanded)

- XIII. **Estimation of upcoming problems in Alaehir geothermal field using a numerical reservoir model**
Aydin H., AKIN S.
ARABIAN JOURNAL OF GEOSCIENCES, vol.14, no.7, 2021 (SCI-Expanded)
- XIV. **A proxy model for determining reservoir pressure and temperature for geothermal wells**
Aydin H., AKIN S., Senturk E.
Geothermics, vol.88, 2020 (SCI-Expanded)
- XV. **Geothermal re-injection performance evaluation using surveillance analysis methods**
AKIN S.
Renewable Energy, vol.139, pp.635-642, 2019 (SCI-Expanded)
- XVI. **Flue gas injection for EOR and sequestration: Case study**
Bender S., AKIN S.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.157, pp.1093-1105, 2017 (SCI-Expanded)
- XVII. **LIQUEFACTION OF NIGDE-ULUKISLA OIL SHALE: THE EFFECTS OF PROCESS PARAMETERS ON THE CONVERSION OF LIQUEFACTION PRODUCTS**
KARTAL Ö. E., AKIN S., Hascakir B., KARACA H.
OIL SHALE, vol.34, no.4, pp.336-353, 2017 (SCI-Expanded)
- XVIII. **Multiscale pore structure characterization of middle east carbonates**
Gundogar A. S., Ross C. M., AKIN S., Kovscek A. R.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.146, pp.570-583, 2016 (SCI-Expanded)
- XIX. **Solar generated steam injection in heavy oil reservoirs: A case study**
Afsar C., AKIN S.
RENEWABLE ENERGY, vol.91, pp.83-89, 2016 (SCI-Expanded)
- XX. **Development of a linear predictive model for carbon dioxide sequestration in deep saline carbonate aquifers**
Anbar S., AKIN S.
COMPUTERS & GEOSCIENCES, vol.37, no.11, pp.1802-1815, 2011 (SCI-Expanded)
- XXI. **Time-Dependent Shape Factors for Uniform and Non-Uniform Pressure Boundary Conditions**
Rangel-German E. R., Kovscek A. R., AKIN S.
TRANSPORT IN POROUS MEDIA, vol.83, no.3, pp.591-601, 2010 (SCI-Expanded)
- XXII. **Optimization of well placement geothermal reservoirs using artificial intelligence**
AKIN S., KÖK M. V., Uraz I.
COMPUTERS & GEOSCIENCES, vol.36, no.6, pp.776-785, 2010 (SCI-Expanded)
- XXIII. **Field-Scale Analysis of Heavy-Oil Recovery by Electrical Heating**
Hascakir B., Babadagli T., AKIN S.
SPE RESERVOIR EVALUATION & ENGINEERING, vol.13, no.1, pp.131-142, 2010 (SCI-Expanded)
- XXIV. **Recovery of Turkish Oil Shales by Electromagnetic Heating and Determination of the Dielectric Properties of Oil Shales by an Analytical Method**
Hascakir B., AKIN S.
ENERGY & FUELS, vol.24, no.1, pp.503-509, 2010 (SCI-Expanded)
- XXV. **Microwave-Assisted Heavy Oil Production: An Experimental Approach**
Hascakir B., Acar C., AKIN S.
ENERGY & FUELS, vol.23, no.12, pp.6033-6039, 2009 (SCI-Expanded)
- XXVI. **Application of Vapor Extraction (VAPEX) Process on Carbonate Reservoirs**
KÖK M. V., Yildirim Y., AKIN S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.31, no.5, pp.377-386, 2009 (SCI-Expanded)
- XXVII. **Experimental and Numerical Simulation of Oil Recovery from Oil Shales by Electrical Heating**
Hascakir B., Babadagli T., AKIN S.
ENERGY & FUELS, vol.22, no.6, pp.3976-3985, 2008 (SCI-Expanded)
- XXVIII. **CO₂ injection into saline carbonate aquifer formations II: Comparison of numerical simulations to experiments**

- Izgec O., Demiral B., Bertin H., AKIN S.
TRANSPORT IN POROUS MEDIA, vol.73, no.1, pp.57-74, 2008 (SCI-Expanded)
- XXIX. **CO₂ injection into saline carbonate aquifer formations I: laboratory investigation**
Izgec O., Demiral B., Bertin H., AKIN S.
TRANSPORT IN POROUS MEDIA, vol.72, no.1, pp.1-24, 2008 (SCI-Expanded)
- XXX. **Combination of well log and pore-scale data to predict petrophysical properties of diatomite**
AKIN S., Ross C. M., Kovscek A. R.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.60, pp.133-149, 2008 (SCI-Expanded)
- XXXI. **Application of vapex process for light crude oil**
KÖK M. V., Yildirim Y., AKIN S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.30, no.1, pp.20-26, 2008 (SCI-Expanded)
- XXXII. **Application of Vapour Extraction VAPEX Process for Light Crude Oil**
KÖK M. V., Yakut Y., Akin S.
Energy Sources-A, vol.30, pp.20-26, 2008 (SCI-Expanded)
- XXXIII. **Data base development for drilling bit selection**
KÖK M. V., Guzeloglu L., AKIN S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.30, no.4, pp.377-383, 2008 (SCI-Expanded)
- XXXIV. **Estimating Drilling Parameters for Diamond Bit Drilling Operations Using Artificial Neural Networks**
AKIN S., KARPUZ C.
INTERNATIONAL JOURNAL OF GEOMECHANICS, vol.8, no.1, 2008 (SCI-Expanded)
- XXXV. **Early weight bearing of porous HA/TCP (60/40) ceramics in vivo: A longitudinal study in a segmental bone defect model of rabbit**
Balcik C., Tokdemir T., Senkoylu A., Koc N., Timucin M., Akin S., Korkusuz P., Korkusuz F.
ACTA BIOMATERIALIA, vol.3, no.6, pp.985-996, 2007 (SCI-Expanded)
- XXXVI. **Image processing techniques in foam characterization**
Ozbayoglu E. M., Akin S., Eren T.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.29, no.13, pp.1175-1185, 2007 (SCI-Expanded)
- XXXVII. **Lattice Boltzmann simulation of fluid flow in synthetic fractures**
Eker E., Akin S.
TRANSPORT IN POROUS MEDIA, vol.65, no.3, pp.363-384, 2006 (SCI-Expanded)
- XXXVIII. **Estimation of expected monetary values of selected oil fields**
KÖK M. V., Kaya E., AKIN S.
Energy Sources, Part B: Economics, Planning and Policy, vol.1, no.2, pp.213-221, 2006 (SCI-Expanded)
- XXXIX. **Monte Carlo simulation of oil fields**
KÖK M. V., Kaya E., AKIN S.
Energy Sources, Part B: Economics, Planning and Policy, vol.1, no.2, pp.207-211, 2006 (SCI-Expanded)
- XL. **Multiphase-flow properties of fractured porous media**
Rangel-German E., Akin S., Castanier L.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.51, pp.197-213, 2006 (SCI-Expanded)
- XLI. **Influence of duration of total breast-feeding on bone mineral density in a Turkish population: does the priority of risk factors differ from society to society?**
Dursun N., Akin S., Dursun E., Sade I., Korkusuz F.
OSTEOPOROSIS INTERNATIONAL, vol.17, no.5, pp.651-655, 2006 (SCI-Expanded)
- XLII. **Mathematical modeling of steam-assisted gravity drainage**
Akin S.
COMPUTERS & GEOSCIENCES, vol.32, no.2, pp.240-246, 2006 (SCI-Expanded)
- XLIII. **Vibration analysis of the human radius of elderly men**
Oezdurak R. H., Sezgin O. C., Akin S., Korkusuz F.

- CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, no.443, pp.94-100, 2006 (SCI-Expanded)
- XLIV. **Asphaltene deposition during steam-assisted gravity drainage: Effect of non-condensable gases**
Canbolat S., Akin S., Kovscek A.
PETROLEUM SCIENCE AND TECHNOLOGY, vol.24, no.1, pp.69-92, 2006 (SCI-Expanded)
- XLV. **Tracer model identification using artificial neural networks**
Akin S.
WATER RESOURCES RESEARCH, vol.41, no.10, 2005 (SCI-Expanded)
- XLVI. **Limitations of three-phase Buckley-Leverett theory**
Akin S., Demiral M.
ENERGY SOURCES, vol.27, no.9, pp.857-865, 2005 (SCI-Expanded)
- XLVII. **Spontaneous imbibition in low permeability carbonates**
Hatiboglu C., Karaaslan U., Akin S.
ENERGY SOURCES, vol.27, no.9, pp.839-846, 2005 (SCI-Expanded)
- XLVIII. **Mathematical modeling of steam-assisted gravity drainage**
AKIN S.
SPE Reservoir Evaluation and Engineering, vol.8, no.5, pp.372-376, 2005 (SCI-Expanded)
- XLIX. **Noncondensable gas steam-assisted gravity drainage**
Canbolat S., Akin S., Kovscek A.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.45, pp.83-96, 2004 (SCI-Expanded)
- L. **On the estimation of kinetic parameters of organic matters using linearization methods**
Uraz I., AKIN S., KÖK M. V.
Computers and Geosciences, vol.30, no.7, pp.761-766, 2004 (SCI-Expanded)
- LI. **Comparison of landing maneuvers between male and female college volleyball players**
Salci Y., Kentel B., Heycan C., Akin S., Korkusuz F.
CLINICAL BIOMECHANICS, vol.19, no.6, pp.622-628, 2004 (SCI-Expanded)
- LII. **A new computerized moving stage for optical microscopes**
Hatiboglu C., Akin S.
COMPUTERS & GEOSCIENCES, vol.30, no.5, pp.471-481, 2004 (SCI-Expanded)
- LIII. **Bone mineral density of lumbar spine and proximal femur in healthy males**
Akin S., Isikli S., Korkusuz F., Urgan M., Senkoylu A.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.259, no.2, pp.361-364, 2004 (SCI-Expanded)
- LIV. **Precision of a dual energy X-ray absorptiometry device**
Forkusuz F., Isikli S., Akin S., Urgan M., Senkoylu A., Aras N.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.259, no.3, pp.365-368, 2004 (SCI-Expanded)
- LV. **Computer tomography in petroleum engineering research**
AKIN S., Kovscek A.
Geological Society Special Publication, vol.215, pp.23-38, 2003 (SCI-Expanded)
- LVI. **Integrated nonlinear regression analysis of tracer and well test data**
Akin S.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.39, pp.29-44, 2003 (SCI-Expanded)
- LVII. **Studies of waterflooding in low-permeable chalk by use of X-ray CT scanning [J. Pet. Sci. Eng. 32 (2001) 1-10]**
Akin S.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.36, pp.127-129, 2002 (SCI-Expanded)
- LVIII. **Experimental and numerical analysis of dry forward combustion with diverse well configuration**
AKIN S., Bagci S., KÖK M. V.
Energy and Fuels, vol.16, no.4, pp.892-903, 2002 (SCI-Expanded)
- LIX. **Heavy-oil solution gas drive: a laboratory study**
Akin S., Kovscek A.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.35, pp.33-48, 2002 (SCI-Expanded)
- LX. **Application of artificial neural networks to optimum bit selection**

- Yilmaz S., Demircioglu C., Akin S.
COMPUTERS & GEOSCIENCES, vol.28, no.2, pp.261-269, 2002 (SCI-Expanded)
- LXI. **Personal computer application of well test analysis techniques**
AKIN S., KÖK M. V.
Energy Sources, vol.24, no.1, pp.9-18, 2002 (SCI-Expanded)
- LXII. **A laboratory study of single-well steam-assisted gravity drainage process**
Akin S, Bagci S.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.32, no.1, pp.23-33, 2001 (SCI-Expanded)
- LXIII. **Application of predictive Enhanced Oil Recovery models on a very heavy oil field**
KÖK M. V., AKIN S.
Energy Sources, vol.23, no.10, pp.907-916, 2001 (SCI-Expanded)
- LXIV. **Estimation of fracture relative permeabilities from unsteady state corefloods**
Akin S.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.30, no.1, pp.1-14, 2001 (SCI-Expanded)
- LXV. **Analysis of tracer tests with simple spreadsheet models**
Akin S.
COMPUTERS & GEOSCIENCES, vol.27, no.2, pp.171-178, 2001 (SCI-Expanded)
- LXVI. **Effect of flow rate on imbibition three-phase relative permeabilities and capillary pressures**
Akin S, Demiral M.
ENERGY SOURCES, vol.23, no.2, pp.127-135, 2001 (SCI-Expanded)
- LXVII. **Spontaneous imbibition characteristics of diatomite**
Akin S., Schembre J., Bhat S., Kavscek A.
Journal of Petroleum Science and Engineering, vol.25, pp.149-165, 2000 (SCI-Expanded)
- LXVIII. **Bone density and biochemical markers in rheumatoid arthritis**
Akin S., Gulec O., Beyazova M., Korkusuz F.
OSTEOPOROSIS INTERNATIONAL, vol.11, 2000 (SCI-Expanded)
- LXIX. **Assessment of mineral density and atomic content of fracture callus by quantitative computerized tomography**
Korkusuz F., AKIN S., Akkuş O., KORKUSUZ P.
Journal of Orthopaedic Science, vol.5, no.3, pp.248-255, 2000 (SCI-Expanded)
- LXX. **Genetic algorithm for estimating multiphase flow functions from unsteady-state displacement experiments**
AKIN S., Demiral B.
Computers and Geosciences, vol.24, no.3, pp.251-258, 1998 (SCI-Expanded)
- LXXI. **An integrated study of drilling fluid shaly rock interactions - A key to solve wellbore instability problems**
Kuru E., Demiral B., Akin S., Kerem M., Gagatay B.
OIL GAS-EUROPEAN MAGAZINE, vol.24, no.1, pp.25-29, 1998 (SCI-Expanded)
- LXXII. **Relation between mechanical stiffness and vibration transmission of fracture callus: an experimental study on rabbit tibia**
Akkus O., Korkusuz F., Akin S., Akkas N.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.212, pp.327-336, 1998 (SCI-Expanded)
- LXXIII. **A novel method of porosity measurement utilizing computerized tomography**
Akin S., Demiral M., Okandan E.
IN SITU, vol.20, no.4, pp.347-365, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of temperature on heavy oil/water relative permeabilities**

Akin S., Castanier L. M., Brigham W. E.

SPE Reprint Series, no.61, 2008 (Scopus)

II. Near Critical Gas Condensate Relative Permeability of Carbonates

Çalışgan H., AKIN S.

The Open Petroleum Engineering Journal, vol.1, pp.30-41, 2008 (Peer-Reviewed Journal)

III. Effects of Pilates exercise on trunk strength, endurance and flexibility in sedentary adult females

Sekendiz B., Altun O., Korkusuz F., AKIN S.

JOURNAL OF BODYWORK AND MOVEMENT THERAPIES, vol.11, no.4, pp.318-326, 2007 (ESCI)

IV. Experimental and numerical investigation of the carbon dioxide sequestration in the carbonate

rocks Karbonat kayaçlarda karbon dioksit tecridinin deneysel ve sayısal olarak araştırılması

Izgeç Ö., Demiral B., Bertin H., AKIN S.

Turkish Journal of Oil and Gas, vol.11, no.2, pp.3-15, 2005 (Scopus)

Books & Book Chapters

I. Computerised Tomography in Petroleum Engineering Research

AKIN S., Anthony R K.

in: Applications of Computerized X ray Tomography in Geology and Related Domains, Jacobs, P., Mees, F., Swennen, R, Van Geet, M. , Editor, Geological Society, Londrina, pp.23-38, 2003

Refereed Congress / Symposium Publications in Proceedings

I. Heat Extraction at High Flow Rates by Fracture Plugging in Geothermal Reservoirs from Pore to Darcy Scale Considering Local Thermal Non-Equilibrium (LTNE) Conditions

Tavakkoli Y., Doğan M. O., Akin S.

Interpore 2023, Edinburgh, England, 22 - 25 May 2023, pp.333-334

II. Monte Carlo Model Simulations of Tracer Tests to Determine Fracture Aperture Size Range in an Anisotropic Geothermal Reservoir

Erol S., Akin T., Akin S.

48th Stanford Workshop on Geothermal Reservoir Engineering, California, United States Of America, 6 - 08 February 2023, vol.224, pp.1-7

III. Modeling of Chloride and Carbon Dioxide Injection at Kızıldere Geothermal Field

Sevindik D. B., Erol S., Akin T., Akin S.

48th Stanford Workshop on Geothermal Reservoir Engineering, California, United States Of America, 6 - 08 February 2023, vol.224, pp.1-7

IV. Recent Soil Carbon Dioxide Flux Measurements at Kızıldere Geothermal Field

Tokel A. B., Akin S., Akin T., Erol S., Sevindik D. B.

48 th Workshop on Geothermal Reservoir Engineering, California, United States Of America, 6 - 08 February 2023, vol.224, pp.1-7

V. Injection of geothermal gases at the Kızıldere field: A pre-injection overview

AKIN T., EROL S., AKIN S., şentürk e., şengün çetin r.

EGU General Assembly 2022, Viyana, Austria, 23 May 2022

VI. Optimization of Production and Injection of Geothermal Fields: A Machine Learning Approach

Başer A., Küçük S., Saraçoğlu Ö., Şentürk E., Akin S.

World Geothermal Congress 2020+1, Reykjavik, Iceland, 01 April 2021

VII. A Predictive Model of Wellbore Performance in Presence of Carbon Dioxide in KizildereGeothermal Field

Saraçoğlu Ö., Başer A., Akin T., Küçük S., Şentürk E., Akin S.

World Geothermal Congress 2020+1, Reykjavik, Iceland, 01 April 2021

- VIII. **Soil CO₂ Flux and Temperature Measurements in Kızıldere Geothermal Field**
Küçük S., Başer A., Saraçoğlu Ö., Akın T., Şentürk E., Tüzen M. K., Akın S.
World Geothermal Congress 2020, Reykjavik, Iceland, 01 April 2021
- IX. **Reinjection Optimization of Kızıldere Geothermal Field for Sustainable Reservoir Pressure Management**
Küçük S., Başer A., Saraçoğlu Ö., Şentürk E., Tüzen M. K., Akın S.
World Geothermal Congress 2020+1, Reykjavik, Iceland, 01 April 2021
- X. **CO₂ Decline in Alaşehir (Turkey) Geothermal Reservoir**
Akın S., Aydın H., Akın T.
World Geothermal Congress 2020+1, Reykjavik, Iceland, 01 April 2021
- XI. **Experimental and Numerical Investigation of Mining Assisted Heavy Oil Production for Ultimate Recovery**
CANBOLAT S., ÖZTÜRK H., AKIN S.
EAGE 82ND ANNUAL CONFERENCE EXHIBITION 2020, Netherlands, 8 - 11 December 2020
- XII. **Mining-Assisted Heavy Oil Production (MAHOP)**
Canbolat S., Öztürk H., Akın S.
Conference Proceedings, EAGE 2020 Annual Conference & Exhibition, Amsterdam, Netherlands, 8 - 11 December 2020, pp.1-5
- XIII. **Economics of Mining Assisted Heavy Oil Production (MAHOP) Method for Ultimate Recovery**
Canbolat S., Öztürk H., Akın S.
Türkiye IV. Bilimsel ve Teknik Petrol Kongresi, Ankara, Turkey, 18 - 20 November 2020, pp.1-11
- XIV. **Evaluation of Production Capacity of Geothermal Power Plants in Turkey**
Aydın H., Akın S., Şentürk E.
Geothermal Resources Council Annual Meeting, California, United States Of America, 16 October 2020, vol.44, pp.163-174
- XV. **Reactive Transport Modeling of CO₂ Injection into Kızıldere Geothermal Field**
KÜÇÜK S., EROL S., BAŞER A., AKIN T., SARAÇOĞLU Ö., AKIN S.
11th European Geothermal PhD Day, Denizli, Turkey, 24 - 26 February 2020
- XVI. **Numerical Reservoir Simulation of Alaşehir Geothermal Field**
Aydın H., Akın S.
stanford geothermal workshop, California, United States Of America, 10 - 12 February 2020, vol.45, pp.1-7
- XVII. **Characterizing the Declining CO₂ Emissions from Turkish Geothermal Power Plants**
Akın S., Örucü Y., Fridriksson T.
Stanford Geothermal Workshop, California, United States Of America, 10 - 12 February 2020, vol.45, pp.1-9
- XVIII. **PREDICTIVE MODELING OF CO₂ – BRINE CO-INJECTION CONDITIONS IN RE-INJECTION WELLS**
Akın T., Akın S., Küçük S., Saraçoğlu Ö., Başer A.
Goldschmidt, Barcelona, Spain, 18 - 23 August 2019, pp.1
- XIX. **Experimental Investigation of the Effect of Temperature on Friction Pressure Loss of Polymeric Drilling Fluid Through Vertical Concentric Annulus**
Gürçay K. O., Akın S., Gucuyener H.
44th Workshop on Geothermal Reservoir Engineering, Stanford University, California, United States Of America, 11 - 13 February 2019, vol.213, pp.1-7
- XX. **Parameter Study on Tracer Flow Test**
Aydın H., Akın S.
44th Workshop on Geothermal Reservoir Engineering, Stanford University, California, United States Of America, 11 - 13 February 2019, pp.1-7
- XXI. **Discrete Fracture Network Modeling of Alaşehir Geothermal Field**
Aydın H., Akın S.
44th Stanford University Workshop on Geothermal Reservoir Engineering, California, United States Of America, 11 - 13 February 2019, pp.1-7
- XXII. **Estimation of Polymer Re-Gel Injection Time in Natural Fractured Reservoirs**

Longinos S., Soltanieh A., Akin S.

2nd International Discrete Fracture Network Engineering Conference, Washington, United States Of America, 20 - 22 June 2018, pp.1-5

- XXIII. **Injection of Non Condensable Gases in Geothermal Reservoirs: Case Study**
ismet y., AKIN S.
IGC 2018, Ankara, Turkey, 14 - 15 March 2018
- XXIV. **Application of Fluorescent Micro Particles as Geothermal Tracers**
Aydın H., Akin S., Salar M.
43rd Workshop on Geothermal Reservoir Engineering Stanford University, California, United States Of America, 12 - 14 February 2018, vol.213, pp.1-7
- XXV. **Practical Experiences About Reservoir Monitoring in Alasehir Geothermal Field**
Aydın H., Akin S., Tezel S.
43rd Workshop on Geothermal Reservoir Engineering Stanford University, California, United States Of America, 12 - 14 February 2018, vol.213, pp.1-7
- XXVI. **Comprehensive Tracer Testing in the Germencik Field**
Akin S., Gülgör A.
43rd Workshop on Geothermal Reservoir Engineering Stanford University, California, United States Of America, 12 - 14 February 2018, vol.213, pp.1-7
- XXVII. **Carbon dioxide injection field pilot in umurlu geothermal field, Turkey**
Yücetaş İ., Ergiçay N., Akin S.
Geothermal Resources Council 2018 Annual Meeting: Geothermal's Role in Today's Energy Market, GRC 2018, Nevada, United States Of America, 14 - 17 October 2018, vol.42, pp.2285-2291
- XXVIII. **Accurate modeling of surge and swab pressures of yield power law fluids in concentric annuli**
Erge O., Akin S., Gucuyener I.
SPE/IADC Middle East Drilling Technology Conference and Exhibition 2018, Abu Dhabi, United Arab Emirates, 29 - 31 January 2018
- XXIX. **Discrete fracture network modeling and gel injection simulation in fractured carbonates**
Longinos S. N., Soltanieh A., Akin S.
2nd International Discrete Fracture Network Engineering Conference, DFNE 2018, Washington, United States Of America, 20 - 22 June 2018
- XXX. **A Novel Characterization and Optimization Workflow For Waterflooded Reservoirs: Interwell Mapping Production Optimization**
Gözel E., AKIN S.
22nd World Petroleum Congress, İstanbul, Turkey, 9 - 13 July 2017
- XXXI. **Estimation of Long-Term CO₂ Decline During Operation of Geothermal Power Plants**
AKIN S.
International Geothermal Conference, İzmir, Turkey, 22 - 24 May 2017
- XXXII. **Geothermal Resource Assessment of Alasehir Geothermal Field**
AKIN S.
Stanford Workshop on Geothermal Reservoir Engineering, Palo Alto, Stanford University, 13 - 15 February 2017
- XXXIII. **The impact of hard data uncertainty in reservoirs modelling**
Fadlelmula M., AKIN S., Duzgun H.
2nd EAGE Workshop on Well Injectivity and Productivity in Carbonates 2017, Doha, Qatar, 10 - 12 December 2017
- XXXIV. **Compositional simulation of CO₂ storage in a CO₂ flooded carbonate reservoir**
Bender S., AKIN S.
SPE Symposium: Production Enhancement and Cost Optimisation 2017, Kuala-Lumpur, Malaysia, 7 - 08 November 2017
- XXXV. **Reservoir Characterization and Management in Western Anatolia Turkey**
AKIN S.
International Geothermal Conference, 6 - 08 June 2016
- XXXVI. **Tracer Testing at Kizildere Geothermal Field Turkey Using Naphtalene Sulfonates**

- AKIN S., Güney A., Şentürk E., Şengün R., Kılınçarslan S.
Stanford Geothermal Workshop, 22 - 24 February 2016
- XXXVII. **Fractal Modeling of Outcrop Fracture Patterns in Alasehir Geothermal Reservoir Turkey**
Gürel E., Coşkuner Y. B., AKIN S.
Stanford Geothermal Workshop, 22 - 24 February 2016
- XXXVIII. **Discrete Fracture Network Modeling and Gel Injection Simulation**
Soltanieh A., AKIN S.
Conference of the International Association for Mathematical Geosciences in Fractured Carbonates (IAMG 2015),
Freiburg, Germany, 5 - 13 September 2015
- XXXIX. **Bitümlü Şeyllerin Kapsamlı Spektral ve Termal Karakterizasyonu**
GÜVEN ERGE S., AKIN S., Hasçakır B.
25. İTÜ Petrol ve Doğal Gaz Semineri, Turkey, 18 - 19 June 2015
- XL. **A modification to Sawyer Brown Method to track the damage and non Darcy effects on the bottom hole pressure and rate behavior**
Alp E., AKIN S.
20th international petroleum and natural gas exhibition of Turkey, Turkey, 27 - 29 May 2015
- XLI. **Spectral and Thermal Analysis Explains the Mechanism of Oil Shale Recovery with Microwave Heating**
GÜVEN ERGE S., AKIN S., Hasçakır B.
20th international petroleum and natural gas exhibition of Turkey, Turkey, 27 - 29 May 2015
- XLII. **Discrete Fracture Modeling and Gel Injection Simulation in Fractured Carbonates**
Soltanieh A., AKIN S.
20th international petroleum and natural gas exhibition of Turkey, Turkey, 27 - 29 May 2015
- XLIII. **Jeotermal Sahalarda Fraktal Analiz Yöntemiyle Çatlak Karakterizasyonu**
Gürel E., AKIN S.
20th international petroleum and natural gas exhibition of Turkey, Turkey, 26 - 29 May 2015
- XLIV. **Design and Analysis of Multiwell Interference Tests**
AKIN S.
World Geothermal Congress, Melbourne, Australia, 19 - 24 April 2015
- XLV. **Coiled Tubing Acid Stimulation of Alasehir Geothermal Field Turkey**
AKIN S., Yıldırım N., Yazman M., Karadağ M., Seçkin C., Tonguç E., Gürel E., Yarım H.
World Geothermal Congress, Melbourne, Australia, 19 - 24 April 2015
- XLVI. **An Experimental Study on Usage of Hollow Glass Spheres HGS for Reducing Mud Density in Geothermal Drilling**
Arı T. Ç., AKIN S.
World Geothermal Congress, Melbourne, Australia, 19 - 24 April 2015
- XLVII. **Comprehensive spectral and thermal characterization of oil shales**
GÜVEN S. N., AKIN S., Hascakir B.
SPE Middle East Unconventional Resources Conference and Exhibition 2015 - The Journey of Unconventional Resources: From Exploration to Successful Development, Muscat, Oman, 26 - 28 January 2015, pp.402-414
- XLVIII. **Uncertainties in Reservoir limit test results - Effect of input parameters**
Altınbay G., AKIN S.
77th EAGE Conference and Exhibition 2015: Earth Science for Energy and Environment, Madrid, Spain, 1 - 04 June 2015, pp.1576-1580
- XLIX. **Parameterization of Channelized Training Images: A Novel Approach for Multiple-Point Simulations of Fluvial Reservoirs**
Fadlilmula M. M., AKIN S., Duzgun S.
15th Annual Conference of the International-Association-for-Mathematical-Geosciences (IAMG), Madrid, Spain, 2 - 06 September 2013, pp.557-560
- L. **Assessment of CO2 Storage Potential in Turkey, Modeling and a Prefeasibility Study for Injection into an Oil Field**

Okandan E., Karakece Y., Cetin H., Topkaya I., PARLAKTUNA M., AKIN S., Bulbul S., Dalha C., Anbar S., Cetinkaya C., et al.

10th International Conference on Greenhouse Gas Control Technologies, Amsterdam, Netherlands, 19 - 23 September 2010, vol.4, pp.4849-4856

- LI. **Optimum tertiary steam-injection strategies for oil-wet fractured carbonates**
AKIN S., Celebioglu D., Kalfa U.
SPE Western Regional Meeting 2009, San Jose, CA, United States Of America, 24 - 26 March 2009, pp.72-81
- LII. **Experimental and numerical modeling of heavy-oil recovery by electrical heating**
Hascakir B., Babadagli T., AKIN S.
Society of Petroleum Engineers - International Thermal Operations and Heavy Oil Symposium, ITOHOS 2008 - "Heavy Oil: Integrating the Pieces", Calgary, Canada, 20 - 23 October 2008, vol.2, pp.755-768
- LIII. **Microwave assisted gravity drainage of heavy oils**
Hascakir B., Acar C., Schlumberger S., Demiral B., AKIN S.
International Petroleum Technology Conference, IPTC 2008, Kuala-Lumpur, Malaysia, 3 - 05 December 2008, vol.3, pp.1908-1916
- LIV. **Pore network modeling of multiphase flow in fissured and vuggy carbonates**
Erzeybek S., AKIN S.
16th SPE/DOE Improved Oil Recovery Symposium 2008 - "IOR: Now More Than Ever.", Tulsa, OK, United States Of America, 19 - 23 April 2008, vol.2, pp.656-668
- LV. **Pore network modeling of two phase flow in vuggy carbonates**
AKIN S., Erzeybek S.
70th European Association of Geoscientists and Engineers Conference and Exhibition - Incorporating SPE EUROPEC 2008, Rome, Italy, 9 - 12 June 2008, vol.1, pp.606-616
- LVI. **Life style determinants of bone mineral density in Turkish women**
Akin S., Ozyemisci O., Atalay F., Karaoglan B., Kutsal Y. G., Dincer G., Hasanoglu A., Basaran A.
7th International Symposium on Osteoporosis, Washington, Kiribati, 18 - 22 April 2007, vol.18
- LVII. **Is Bati Raman heavy oil field a triple porosity system?**
Arslan I., AKIN S., Karakece Y., Korucu Ö.
2007 SPE/EAGE Reservoir Characterization and Simulation Conference, Abu Dhabi, United Arab Emirates, 28 - 30 October 2007, pp.67-77
- LVIII. **Experimental and numerical modeling of direct injection of CO₂ into carbonate formations**
Izgec O., Demiral B., Bertin H., AKIN S.
SPE Annual Technical Conference and Exhibition, ATCE 2006: Focus on the Future, San Antonio, TX, United States Of America, 24 - 27 September 2006, vol.1, pp.212-227
- LIX. **Near-critical gas/condensate relative permeability of carbonates**
Calisgan H., Demiral B., AKIN S.
15th SPE-DOE Improved Oil Recovery Symposium: Old Reservoirs New Tricks A Global Perspective, Tulsa, OK, United States Of America, 22 - 26 April 2006, vol.1, pp.520-528
- LX. **Quantitative forearm ultrasound in postmenopausal Turkish women**
Akin S., Ozyemisci O., Atalay F., Karaoglan B., Gokce Kutsal Y., Dincer G., Hasanoglu A.
7th International Symposium on Osteoporosis, Washington, Kiribati, 18 - 22 April 2007, vol.17
- LXI. **Analysis of the influence of bubble size and texture on foam characterization**
Evren Ozbayoglu M., AKIN S., Eren T.
12th International Conference on Multiphase Production Technology '05, Barcelona, Spain, 25 - 27 May 2005, pp.613-625
- LXII. **Relation between smoking and bone mineral density**
Basaran A., Saribay G., Akin S., Korkusuz F.
3rd Osteoporosis and Osteoarthritis Congress, Antalya, Turkey, 20 - 24 April 2005, vol.16, pp.2198
- LXIII. **Experimental and numerical investigation of carbon sequestration in saline aquifers**
Izgec O., Demiral B., Bertin H., AKIN S.
2005 SPE/EPA/DOE Exploration and Production Environmental Conference: Enhancing Environmental

Performance, Galveston, TX, United States Of America, 7 - 09 March 2005, pp.457-463

- LXIV. **CO2 injection in carbonates**
Izgec O., Demiral B., Bertin H., AKIN S.
2005 SPE Western Regional Meeting: Diverse Challenges Out West, Irvine, CA, United States Of America, 30 March - 01 April 2005, pp.231-239
- LXV. **Foam characterization using image processing techniques**
Ozbayoglu E., AKIN S., Eren T.
2005 SPE Western Regional Meeting: Diverse Challenges Out West, Irvine, CA, United States Of America, 30 March - 01 April 2005, pp.297-304
- LXVI. **Risk assessment of petroleum transportation pipeline in some Turkish oil fields**
Ogutcu G., AKIN S.
Proceedings of the 5th Biennial International Pipeline Conference, IPC: Compression and Pump Technologies; Corrosion; Design and Construction; Environmental Issues; GIS/Database Development; Innovative Projects and Emerging Issues, Calgary, Canada, 4 - 08 October 2004, vol.3, pp.2551-2555
- LXVII. **Mathematical modeling of steam assisted gravity drainage**
AKIN S.
SPE International Thermal Operations and Heavy Oil Symposium and Western Regional Meeting "The Power of Technology"- Proceedings, Bakersfield, CA, United States Of America, 16 - 18 March 2004, pp.415-420
- LXVIII. **Investigation of steam and gas push mechanism in carbonate medium**
Canbolat S., Akin S., Polikar M.
5th Canadian International Petroleum Conference 2004, CIPC 2004, Calgary, United States Of America, 8 - 10 June 2004
- LXIX. **Evaluation of SAGD performance in the presence of non-condensable gases**
Canbolat S., Akin S., Polikar M.
5th Canadian International Petroleum Conference 2004, CIPC 2004, Calgary, United States Of America, 8 - 10 June 2004
- LXX. **Time-dependent shape factors for uniform and non-uniform pressure boundary conditions**
Rangel-German E. R., Kovscek A. R., AKIN S.
International Collaboration for Geothermal Energy in the Americas - Geothermal Resources Council: 2003 Annual Meeting, Morelia, Mexico, 12 - 15 October 2003, vol.27, pp.811-815
- LXXI. **A Study of Steam-Assisted Gravity Drainage Performance in the Presence of Noncondensable Gases**
Canbolat S., AKIN S., Kovscek A. R.
SPE/DOE Thirteenth Symposium on Improved Oil Recovery, Tulsa, OK, United States Of America, 13 - 17 April 2002, pp.78-89
- LXXII. **Oxidation of heavy oil and their SARA fractions: its role in modeling in-situ combustion**
AKIN S., Kok M. V., Bagci S., Karacan O.
Proceedings 2000 SPE Annual Technical Conference and Exhibition - Reservoir Engineering/Formation Evaluation and Reservoir Geology, Dallas, TX, USA, 1 - 04 October 2000, vol.SIGMA, pp.757-768
- LXXIII. **Oxidation of heavy oil and their SARA fractions: Its role in modeling in-situ combustion**
AKIN S., KÖK M. V., Bagci S., Karacan O.
Proceedings of the 2000 SPE Annual Technical Conference and Exhibition on Drilling and Completion, Dallas, TX, United States Of America, 1 - 04 October 2000, pp.757-768
- LXXIV. **An experimental study on single well steam assisted gravity drainage**
AKIN S., Bagci S.
Canadian International Petroleum Conference 2000, CIPC 2000, Calgary, Canada, 4 - 08 June 2000
- LXXV. **Effect of temperature on heavy oil/water relative permeabilities**
AKIN S., Castanier L. M., Brigham W. E.
Proceedings of the 1999 SPE International Thermal Operations and Heavy Oil Symposium, Bakersfield, CA, USA, 17 - 19 March 1999, pp.275-285
- LXXVI. **Multiphase-flow properties of fractured porous media**
Rangel-German E., Akin S., Castanier L.

- SPE Western Regional Meeting 1999, WRM 1999, Alaska, United States Of America, 26 - 27 May 1999
- LXXVII. **Imbibition studies of low-permeability porous media**
AKIN S., Kovscek A.
SPE Western Regional Meeting 1999, WRM 1999, Alaska, United States Of America, 26 - 27 May 1999
- LXXVIII. **Spontaneous water imbibition into diatomite**
Schembre J., Akin S., Castanier L., Kovscek A.
Proceedings of the 1998 68th Annual Western Regional Meeting, Bakersfield, CA, USA, 11 - 15 May 1998
- LXXIX. **Effect of temperature on heavy-oil/water relative permeabilities**
Akin S., Castanier L. M., Brigham W. E.
SPE Annual Technical Conference and Exhibition 1998, Louisiana, United States Of America, 27 - 30 September 1998, pp.329-338
- LXXX. **Geothermal reservoir characterization by tracer and well testing**
Akin S., Okandan E.
Proceedings of the 1997 Annual Meeting of the Geothermal Resources Council, Burlingame, CA, USA, 12 - 15 October 1997, vol.21, pp.561-567
- LXXXI. **Biomechanical evaluation of fracture healing of long bones: a comparative study with bone density measurements, QCT and histology**
Akkus O., Korkusuz F., Korkusuz P., AKIN S., Akkas N.
Proceedings of the 1996 3rd Biennial Joint Conference on Engineering Systems Design and Analysis, ESDA. Part 7 (of 9), Montpellier, France, 1 - 04 July 1996, vol.77, pp.93-99

Supported Projects

- AKIN S., EU Supported Other Project, Geothermal Emission Gas Control, 2018 - 2022
- AKIN S., TAVAKKOLI OSGOUEI Y., Project Supported by Higher Education Institutions, Jeotermal Simülasyonlarda Çatlak – Matris Teriminin İzotermal Olmayan Koşullarda İncelenmesi, 2016 - 2022
- AKIN S., Project Supported by Other Private Institutions, JESDER Primer Frekans Kontrolü Uygulamasının İncelenmesi, 2017 - 2017
- AKIN S., Project Supported by Other Private Institutions, Alaşehir Jeotermal Potansiyel ve Rezervuar Simülasyon Hizmetleri, 2016 - 2017
- AKIN S., Project Supported by Other Private Institutions, GÜRMAT Germencik İzleyici Testi Danışmanlık Hizmetleri, 2016 - 2016
- AKIN S., Project Supported by Other Private Institutions, Alaşehir jeotermal potansiyel ve Rezervuar Simülasyon, 2016 - 2016
- AKIN S., Other International Funding Programs, Assessing the use of CO2 from natural sources for commercial purposes in Turkey, 2015 - 2016

Contractual Researches

- AKIN S., Türkerler ALAŞEHİR JEOTERMAL RUHSAT SAHALARI JEOTERMAL REZERVUAR, ÜRETİM VE SONDAJ DANIŞMANLIK HİZMETLERİ , 2017 - Continues
- AKIN S., TÜRKERLER JEOTERMAL ENERJİ ARAMA VE ÜRETİM A.Ş. DANIŞMANLIK, 2015 - Continues
- AKIN S., TURCAS PROJE, 2018 - 2019
- AKIN S., ZORLU DOĞAL ELEKTRİK, 2018 - 2019
- AKIN S., KARKEY JEOTERMAL DANIŞMANLIK, 2017 - 2018
- AKIN S., ZORLU ENDÜSTRİYEL PROJE, 2017 - 2018
- AKIN S., SİS ALAŞEHİR JEOTERMAL DANIŞMANLIK HİZMETLERİ, 2017 - 2017
- AKIN S., BOTAŞ PROJE, 2017 - 2017
- AKIN S., MİS ENERJİ ALAŞEHİR JEOTERMAL DANIŞMANLIK HİZMETLERİ, 2016 - 2017

AKIN S., Alaşehir Simulation, 2016 - 2016
AKIN S., ZORLU JEOTERMAL AR-GE PROJE, 2016 - 2016
AKIN S., Kızıldere Jeotermal Sahası Kimyasal İzleyici Testi Danışmanlık Hizmetleri, 2014 - 2015
AKIN S., Türkerler Rezervuar Danışmanlık Hizmetleri, 2013 - 2014
AKIN S., Türkerler Rezervuar Danışmanlık Hizmetleri, 2012 - 2013
AKIN S., UŞAK ENERJİ RUHSAT ALANLARININ JEOTERMAL KAPASİTELERİNİ DEĞERLENDİRME VE DANIŞMANLIK PROJESİ, 2011 - 2012
AKIN S., JEOTERMAL KAPASİTE DEĞERLENDİRME VE DANIŞMANLIK PROJESİ, 2011 - 2011
AKIN S., Kayen Sigma Enerji Elektrik Üretim San. Tic. A.Ş. adına kayıtlı Kütahya İli sınırları içinde Simav, Gediz, Pazarlar, Şaphane, Hisarcık ve Emet ilçe sınırları içinde bulunan ruhsat sahalarının jeotermal potansiyelinin değerlendirilmesi, 2011 - 2011
AKIN S., Türkmenistan Politeknik Enstitüsünün Petrol-Gaz Fakültesine bağlı Laboratuvarların Ekipmanları ile İlgili Değerlendirilmesi ve Geliştirilmesi, 2011 - 2011
AKIN S., Temel Petrol Mühendisliği Araştırmaları, 2011 - 2011
AKIN S., Kızıldere Danışmanlık Projesi, 2010 - 2011
AKIN S., Kızıldere Jeotermal Sahası Değerlendirme Raporu'nun hazırlanması, 2008 - 2009
AKIN S., Balçova-Narlıdere Jeotermal Sahasında Yapılacak İzleyici testinin planlaması ve yorumlanması, 2008 - 2009
AKIN S., Balçova-Narlıdere Jeotermal Sahasının Sayısal Modellemesi, 2008 - 2009
AKIN S., İzmir Jeotermal A.Ş. Balçova-Narlıdere ve Seferihisar sahaları rezervuar mühendisliği çalışmaları , 2008 - 2009
AKIN S., EPDK Enerji Uzman Yardımcısı Sınavına soru hazırlanması , 2008 - 2008
AKIN S., Maden Tetkik Arama Enstitüsü Personeline Eğitim verilmesi, 2008 - 2008
AKIN S., Türkiye Petrolleri Anonim Ortaklığı Personeline Eğitim verilmesi, 2008 - 2008
AKIN S., B.Raman Sahası Üretim Artırma Projesi Rezervuar Mod. ve Sim. Hizmetleri, 2006 - 2008
AKIN S., K. Marmara Sahası Rezervuar Modelleme Ve Simulasyon Güncelleme Hizmetleri, 2007 - 2007
AKIN S., Batı Raman Sahası Üretim Artırma Projesi Rezervuar Modelleme ve Simülasyon Hizmetleri, 2007 - 2007

Activities in Scientific Journals

Computers & Geosciences, Committee Member, 2012 - Continues
Spe Journal, Committee Member, 2000 - Continues
Spe Reservoir Evaluation, Committee Member, 2000 - Continues
The Scientific World Journal, Committee Member, 2012 - 2018

Metrics

Publication: 159
Citation (WoS): 1345
Citation (Scopus): 2602
H-Index (WoS): 20
H-Index (Scopus): 30

Scholarships

Morton K. Blaustein Visiting Faculty Fellowship, University, 2006 - 2006

Awards

Akın S., Outstanding Technical Reviewer, Society Of Petroleum Engineers, September 2019

Akin S., Outstanding Technical Editor, Society Of Petroleum Engineers, October 2014
Akin S., Outstanding Associate Editor, Society Of Petroleum Engineers, October 2013
Akin S., Outstanding Technical Editor, Society Of Petroleum Engineers, October 2004
Akin S., Prof Dr Tarık G. Somer Akademik Başarı Ödülü, Odtü, July 2004
Akin S., Outstanding Technical Editor, Society Of Petroleum Engineers, October 2002
Akin S., Outstanding Technical Editor, Society Of Petroleum Engineers, October 2001

Non Academic Experience

METU

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Stanford University

METU