

## Prof. SERHAT AKIN

### Personal Information

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### International Researcher IDs

ScholarID: IORN12YAAAAJ

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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 CO<sub>2</sub> 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 CO<sub>2</sub> 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. **Integrated fracture analysis for improved oil recovery in the reefal limestones of Soğucak formation, Northwest Thrace Basin, Türkiye**  
Karaca E., YILMAZ İ. Ö., ÇİFCİ G., Tortopoğlu B., AKIN S.  
Marine and Petroleum Geology, vol.171, 2025 (SCI-Expanded)
- II. **Numerical modeling of the CO<sub>2</sub> injection in the Kizildere geothermal field using multiple inter-well tracer tests**  
SEVİNDİK D. B., Erol S., AKIN S.  
GEOTHERMICS, vol.119, 2024 (SCI-Expanded)
- III. **Experimental study and kinetic modeling of high temperature and pressure CO<sub>2</sub> mineralization**  
Berndsen M., Erol S., Akın T., AKIN S., Nardini I., Immenhauser A., Nehler M.  
International Journal of Greenhouse Gas Control, vol.132, 2024 (SCI-Expanded)
- IV. **CO<sub>2</sub> Dissolution in the reservoir brine: An experimental and simulation-based approach**  
Aydın H., Akın S.  
Geothermics, vol.113, 2023 (SCI-Expanded)
- V. **Experimental and numerical investigation of mining assisted heavy oil production for the Bati Raman field, Turkey**  
Canbolat S., Öztürk H., Akın S.  
GEOENERGY SCIENCE AND ENGINEERING, vol.223, 2023 (SCI-Expanded)
- VI. **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., Akın S., Gainville M.  
APPLIED THERMAL ENGINEERING, vol.223, pp.1-20, 2023 (SCI-Expanded)
- VII. **Update for reactive transport modeling of the Kizildere geothermal field to reduce uncertainties in the early inspections**  
Erol S., Akın T., AKIN S.  
Turkish Journal of Earth Sciences, vol.32, no.4, pp.541-554, 2023 (SCI-Expanded)
- VIII. **Flow and tracer transport in a single fracture at non-isothermal conditions**  
Tavakkoli Osguei Y., Akın S.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.15, no.1723, pp.1-16, 2022 (SCI-Expanded)
- IX. **Advanced workflow for multi-well tracer test analysis in a geothermal reservoir**  
EROL S., Bayer P., AKIN T., AKIN S.  
GEOTHERMICS, vol.101, 2022 (SCI-Expanded)
- X. **Exploitation of Bati Raman field using advanced thermal methods: MAHOP VS. CSHP**  
Canbolat S., Öztürk H., Akın S.  
Journal of Petroleum Science and Engineering, vol.208, 2022 (SCI-Expanded)
- XI. **Fluid-CO<sub>2</sub> injection impact in a geothermal reservoir: Evaluation with 3-D reactive transport modeling**  
EROL S., AKIN T., Baser A., Saracoglu O., AKIN S.  
GEOTHERMICS, vol.98, 2022 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **A proxy model for determining reservoir pressure and temperature for geothermal wells**  
Aydin H., AKIN S., Senturk E.  
Geothermics, vol.88, 2020 (SCI-Expanded)
- XVI. **Geothermal re-injection performance evaluation using surveillance analysis methods**  
AKIN S.  
Renewable Energy, vol.139, pp.635-642, 2019 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- 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. **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)
- XXXVI. **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., Senkoğlu A., Koc N., Timucin M., Akin S., Korkusuz P., Korkusuz F.  
ACTA BIOMATERIALIA, vol.3, no.6, pp.985-996, 2007 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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)
- 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. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **Mathematical modeling of steam-assisted gravity drainage**

- Akin S.  
COMPUTERS & GEOSCIENCES, vol.32, no.2, pp.240-246, 2006 (SCI-Expanded)
- XLIV. **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)
- XLV. **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)
- XLVI. **Tracer model identification using artificial neural networks**  
Akin S.  
WATER RESOURCES RESEARCH, vol.41, no.10, 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. **Limitations of three-phase Buckley-Leverett theory**  
Akin S., Demiral M.  
ENERGY SOURCES, vol.27, no.9, pp.857-865, 2005 (SCI-Expanded)
- XLIX. **Mathematical modeling of steam-assisted gravity drainage**  
AKIN S.  
SPE Reservoir Evaluation and Engineering, vol.8, no.5, pp.372-376, 2005 (SCI-Expanded)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **A new computerized moving stage for optical microscopes**  
Hatiboglu C., Akin S.  
COMPUTERS & GEOSCIENCES, vol.30, no.5, pp.471-481, 2004 (SCI-Expanded)
- LIV. **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)
- LV. **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)
- LVI. **Computer tomography in petroleum engineering research**  
AKIN S., Kovscek A.  
Geological Society Special Publication, vol.215, pp.23-38, 2003 (SCI-Expanded)
- LVII. **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)
- LVIII. **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)
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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-Narlidere Jeotermal Sahasında Yapılacak İzleyici testinin planlaması ve yorumlanması, 2008 - 2009
- AKIN S., Balçova-Narlidere Jeotermal Sahasının Sayısal Modellemesi, 2008 - 2009
- AKIN S., İzmir Jeotermal A.Ş. Balçova-Narlidere 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 Simülasyon 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: 162

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**

Akin 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**

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