Assoc. Prof. ÇAĞLAR SINAYUÇ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAT-9782-2020

ScopusID: 7801371052

Yoksis Researcher ID: 166059

Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Petrol Mühendisliği (Dr), Turkey 2001 - 2007

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Petrol Ve Doğalgaz Mühendisliği (Yl) (Tezli), Turkey 1998 - 2001

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, Turkey 1993 - 1998

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Modeling of enhanced coalbed methane recovery from Amasra coalbed in Zonguldak coal basin, Middle East Technical University, Graduate School of Natural and Applied Sciences, Petrol Mühendisliği (Dr), 2007 Postgraduate, Prediction of the phase bahavior of a gas-condensate system: Computer modeling study, Middle East Technical University, Graduate School of Natural and Applied Sciences, Petrol Ve Doğalgaz Mühendisliği (Yl) (Tezli), 2001

Research Areas

Petroleum And Natural Gas Engineering, Reservoir, Reservoir Engineering and Recovery Methods, Gas Hydrates, Jeothermal Reservoir Engineering, Underground Storage, Alternate Fuels and Energy Resources, Petroleum Products (gasoline, diesel, fuel oil, solvents, etc.), Gas Production from Gas Hydrate Reserves

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2011 - 2017

Researcher, Imperial College of Science, Technology and Medicine, Earth Science and Engineering, 2007 - 2011 Expert, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2005 - 2007

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 1998 - 2005

Academic and Administrative Experience

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

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Petrol ve Doğal Gaz Mühendisliği, 2018 - Continues

Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2011 - Continues

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2011 - 2018

Deputy Director of Research Institute, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2011 - 2018

Fakülte Yönetim Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2012 - 2015

Advising Theses

SINAYUÇ Ç., Utilisation of an existing natural gas storage field for hydrogen storage: Northern Marmara depleted gas field simulation study, Postgraduate, H.GÜRSEL(Student), 2022

SINAYUÇ Ç., Implementation of noise filtering algorithm for automated pressure transient analysis, Postgraduate, D.COŞAR(Student), 2022

SINAYUÇ Ç., Carbon dioxide sequestration and enhanced oil recovery co-optimization, Postgraduate,

N.AKHUNDOV (Student), 2021

SINAYUÇ Ç., Dispersion modelling of jet propellant 8 spill in the aerospace industry, Postgraduate, O.Çelik(Student), 2020

SINAYUÇ Ç., Assessment of the effects of carbon dioxide injection on the reservoir formation, caprock and wellbore integrity, Postgraduate, A.Ali(Student), 2019

SINAYUÇ Ç., Use of equivalent single porosity medium and automated lumped fluid composition simulation in naturally fractured gas condensate reservoirs, Doctorate, M.Cihan(Student), 2018

SINAYUÇ Ç., Use of equivalent single porosity medium and automated lumped fluid composition in naturally fractured gas condensate reservoir simulations, Doctorate, M.CİHAN(Student), 2018

SINAYUÇ Ç., Analysis of the Black Sea gas hydrates, Doctorate, Ş.MEREY(Student), 2017

SINAYUÇ Ç., Assessing uncertainties and managing risks in shale gas projects, Doctorate, M.FATİH(Student), 2017

SINAYUÇ Ç., Candidate selection process for polymer gel application by using artificial neural networks, Doctorate, O.ÖRS(Student), 2017

SINAYUÇ Ç., Characterization of plus fractions for low gas-oil ratio black oil samples in Turkey, Postgraduate, A.TÜRKMENOĞLU(Student), 2016

SINAYUÇ Ç., Use of Voronoi gridding in well test design, Postgraduate, F.RAHİMOV(Student), 2015

SINAYUÇ Ç., Optimization of locations of Voronoi grid points in reservoir simulation, Postgraduate, U.RZA(Student), 2015

SINAYUÇ Ç., Assessment of production strategies of a gas condensate field using a black oil simulator: a case study,

Postgraduate, B.PARLAKTUNA(Student), 2015

SINAYUÇ Ç., An experimental study of enhanced oil recovery application in limestone medium using NaOH solutions, Postgraduate, C.AY(Student), 2014

SINAYUÇ Ç., Effects of CO2 saturation on the recovery of the heavy oil using steam injection EOR technique, Postgraduate,

G.Farid(Student), 2014

SINAYUÇÇ., Effects of CO2 saturation on the recovery of the heavy oil using steam injection EOR technique,

Postgraduate, F.GULUZADE(Student), 2014

SINAYUÇ Ç., Pressure- and rate- transient analysis of the simulated single and multi-fractured horizontal wells drilled in shale gas reservoirs, Postgraduate, T.JAFARLİ(Student), 2013

SINAYUÇ Ç., Production performance analysis of coal bed methane, shale gas, and tight gas reservoirs with different well trajectories and completion techniques, Postgraduate, M.Cihan(Student), 2013

SINAYUÇ Ç., Production performance of coal bed methane, shale gas and tight gas reservoirs with different well trajectories and completion techniques, Postgraduate, M.CİHAN(Student), 2013

SINAYUÇ Ç., Experimental analysis of adsorption capacities and behaviors of shale samples, Postgraduate, Ş.MEREY(Student), 2013

SINAYUÇ Ç., Development of expert system for artificial lift selection, Postgraduate, E.Aliyev(Student), 2013

SINAYUÇ Ç., An Experimental investigation of the shale inhibition properties of a quaternary amine compound, Postgraduate, O.Örs(Student), 2012

SINAYUÇ Ç., Investigation of the interaction of CO2 and CH4 hydrate for the determination of feasibility of CO2 storage in the Black Sea sediments, Postgraduate, O.ÖRS(Student), 2012

SINAYUÇ Ç., CO2-ECBM OPTIMISATION STRATEGIES AND CO2 STORAGE CAPACITY ASSESSMENT OF A EUROPEAN COALFIELD, Postgraduate, W.Nah(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

I. Modeling of ECBM recovery from Amasra coalbed in Zonguldak Basin, Turkey Sinayuc C., Guemrah F.

INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.77, pp.162-174, 2009 (SCI-Expanded)

II. Wellbore Modeling for Predicting the Flowing Behavior of Gas Condensate during Production Adagulu D., Gumrah F., SINAYUÇ Ç.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.31, no.9, pp.783-795, 2009 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. Rheological and PVT Behavior of Synthetic Based Drilling Fluids Under Temperature-Pressure Conditions of the Riser in Deepwater Drilling

Yanik S., Gucuyener I., SINAYUÇ Ç., Akel O.

2024 International Petroleum Technology Conference, IPTC 2024, Dhahran, Saudi Arabia, 12 February 2024

II. Minimization Of The Noise In The Calculated Pressure Derivative Data For The Interpretation Of Transient Tests

Coşar D., Sınayuç Ç.

İPETGAS 2023, Ankara, Turkey, 27 - 29 September 2023, pp.699-701

III. Investigating the Effects of Earthquakes on Tuzla Geothermal Field

Parlaktuna B., Sınayuç Ç., Durgut İ.

World Geothermal Congress, Reykjavik, Iceland, 30 March - 27 October 2021, pp.1-10

IV. CO2-EOR business opportunities in Romania and Turkey

Bos C., Vandeweijer V., Dudu A., Sınayuç Ç., Nermoen A.

15th International Conference on Greenhouse Gas Control Technologies, GHGT-15, Abu Dhabi, United Arab Emirates, 15 - 18 March 2021, pp.1-10

V. Modelling of ECBM recovery from Amasra Coalbed in Zonguldak Basin, Turkey

Sinayuc Ç., Gumrah F.

Canadian International Petroleum Conference 2008, CIPC 2008, Calgary, Canada, 17 - 19 June 2008

VI. Effect of Voronoi Tesellation in Reservoir Flow Modelling

BAYRAM ERTÜRK T., SINAYUÇ Ç.

20th International Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 27 - 29 May 2015, vol.1, pp.371

VII. Use of Voronoi Gridding in the Design of Well Tests

RAHIMOV F., SINAYUÇ Ç.

20th International Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 27 - 29 May 2015, vol.1, pp.372

VIII. Optimization of Locations of Voronoi Grid Points in Reservoir Simulation

RZA GULIYEV U., SINAYUÇ Ç.

20th International Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 27 - 29 May 2015, vol.1, pp.373

IX. Simulation of Gas Production from Hydrate Reservoirs by Using HydrateResSim Numerical Simulator MEREY Ş., SINAYUÇ Ç.

20th International Petroleum and Natural Gas Congress and Exhibition of Turkey, Ankara, Turkey, 27 - 29 May 2015, vol.1, pp.33

X. Gas and Gas Hydrate Potential Offshore Amasra Bartin and Zonguldak and Possible Agent for Multiple BSR Occurrence

KÜÇÜK H. M., DONDURUR D., ÖZEL Ö., SINAYUÇ Ç., MEREY Ş., PARLAKTUNA M., ÇİFÇİ G., TEAM S.

European Geosciences Union General Assembly, Viyana, Austria, 12 - 17 April 2015, vol.17

XI. Production performance analysis of unconventional gas reservoirs with different well trajectories and completion techniques

Erturk M. C., SINAYUÇ Ç.

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.325-335

XII. Kömür Yatağı Gazı Nedir Tehlike mi yoksa Enerji Kaynağı mı

SINAYUÇ Ç.

Recep Tayyip Erdoğan Üniversitesi Alışılagelmedik Enerji Kaynakları Paneli, Rize, Turkey, 15 December 2014

XIII. What is Coalbed Methane Hazard or an Energy Source

SINAYUC C.

SPE Turkey Section Unconventional Resource Symposium, Ankara, Turkey, 4 - 06 December 2014

XIV. How the consensus program standard deviation affected the success of fuel laboratory proficiency test participants

Sinayuç Ç., Bülbül S., Üçkardeş H., Düzol B., Sağlam D. N., Yucayurt G., Soysal E., Adalan H., Okandan E. 8th EURACHEM Workshop- Proficiency Testing in Analytical Chemistry, Microbiology and Laboratory Medicine, Berlin, Germany, 6 - 09 October 2014

XV. Turkey s Potential as Future Energy Hub

SINAYUÇ Ç.

Kick-Off Workshop: Turkey's Role in Global Energy, Ankara, Turkey, 19 - 20 June 2014

XVI. Promising Options of CO2 Geologic Storage

SINAYUÇÇ.

Istanbul Carbon Summit: Carbon Management, Technologies & Trade, İstanbul, Turkey, 3 - 05 April 2014

XVII. Amasra Zonguldak Açıklarının Gaz Hidrat Potansiyeli ve Çoklu BSR Yansımalarının Olası Oluşum Nedenleri

KÜÇÜK H. M., DONDURUR D., ÖZEL Ö., PARLAKTUNA M., SINAYUÇ Ç., MEREY Ş., DARILMAZ E., ÇİFÇİ G. 20th International Geophysical Congress and Exhibition of Turkey, Antalya, Turkey, 25 - 27 November 2013

XVIII. Unconventional Shale Gas Resources are Going to Provide New CO2 Storage Mediums an Experimental Study

MEREY Ş., SINAYUÇ Ç.

6th CGS Europe Knowledge Sharing Workshop, Bratislava, Slovakia, 16 - 17 September 2013

XIX. Methane Hydrate Stability Regions in Deap Sea Sediments can be an Alternative for the Safe Storage of CO2

SINAYUÇÇ., ÖRS O.

6th CGS Europe Knowledge Sharing Workshop, Bratislava, Slovakia, 16 - 17 September 2013

XX. Carbon Capture and Storage Technology

SINAYUÇÇ.

Developments in the Geological Storage of CO2 in the World and Turkey Workshop, Ankara, Turkey, 29 May 2013

XXI. Production Performance Analysis of Coal Bed Methane Shale Gas and Tight Gas Reservoirs with Different Well Trajectories and Completion Techniques

ERTÜRK M. C., SINAYUÇ Ç.

19th International Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 15 - 17 May 2013

XXII. Investigation of the Interaction of CO2 and CH4 Hydrate for the Determination of Feasibility of CO2 Storage in the Black Sea Sediments

ÖRS O., SINAYUÇ Ç.

19th INternational Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 15 - 17 May 2013

XXIII. Experimental Analysis of Adsorption Capacities and Behaviors of Shale Samples MEREY Ş., SINAYUÇ Ç.

19th International Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 15 - 17 May 2013

XXIV. Snøhvit CO2 storage project: Assessment of CO2 injection performance through history matching of the injection well pressure over a 32-months period

Shi J., Imrie C., Sinayuc Ç., Durucan S., Korre A., Eiken O.

11th International Conference on Greenhouse Gas Control Technologies, GHGT 2012, Kyoto, Japan, 18 - 22 November 2012, vol.37, pp.3267-3274

XXV. Numerical modeling of counter-current spontaneous imbibition during underbalanced drilling Naseri M., SINAYUÇ Ç.

North Africa Technical Conference and Exhibition 2012: Managing Hydrocarbon Resources in a Changing Environment, NATC 2012, Cairo, Egypt, 20 - 22 February 2012, vol.2, pp.1303-1312

XXVI. Deep Saline Formations The Largest Potential Volumes for Geological Storage of CO2 SINAYUÇ Ç.

CO2 Capture and Storage Regional Awareness-Raising Workshop, Ankara, Turkey, 14 June 2012

XXVII. CO2 Storage in Deep Coal Seams

SINAYUÇ Ç.

Underground Storage of Emission Sourced CO2 Workshop, Ankara, Turkey, 16 December 2011

XXVIII. Impact of Pressure and Non Isothermal Effects on Well Injectivity in CO2 Geological Storage BACCI G., SINAYUÇ Ç., KORRE A., DURUCAN S.

Minerals Research in UK Universities Conference, Londrina, Brazil, 15 - 16 December 2009

XXIX. Modeling of Enhanced Coalbed Methane Recovery from Amasra Coalbed in Zonguldak Basin SINAYUÇ Ç., GÜMRAH F.

Petroleum Society's 59th Annual Technical Meeting, Calgary, Canada, 17 - 19 June 2008

XXX. Coal Bed Methane Potential in Zonguldak Basin Turkey

OKANDAN E., GÜMRAH F., TOPKAYA I., SINAYUÇ Ç., GÜRPINAR S.

Asia Pacific Coalbed Methane Symposium, Brisbane, Australia, 22 - 24 September 2008

XXXI. Modeling of Enhanced Coalbed Methane Recovery in a Coalbed at Zonguldak Basin SINAYUÇ Ç., GÜMRAH F.

16th International Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 29 - 31 May 2007

XXXII. Predicting the critical properties of heptanes-plus in gas condensates: Genetic algorithms as an optimization tool

SINAYUÇÇ., Gumrah F.

5th Canadian International Petroleum Conference 2004, CIPC 2004, Calgary, United States Of America, 8 - 10 June 2004

XXXIII. Otogaz da Kalite

OKANDAN E., SINAYUÇ Ç.

LPG ve CNG Uygulamaları Sempozyumu, Ankara, Turkey, 14 December 2002

XXXIV. Gaz Kondensat Faz Davranışlarının Tahmin Edilmesi SINAYUÇ Ç., GÜMRAH F.

13th International Petroleum Congress and Exhibition of Turkey, Ankara, Turkey, 4 - 06 June 2001

XXXV. Bir Yeraltı Gaz Deposu Rezervuarından Gaz Üretiminin Optimizasyonu

SINAYUÇ Ç., KÜÇÜKEKŞİ M. S., GÜMRAH F.

Türkiye 8. Enerji Kongresi, Ankara, Turkey, 8 - 12 May 2000

Metrics

Publication: 59

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