

Prof.Dr. MUSTAFA VERŞAN KÖK

Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAH-1061-2020

ScopusID: 55667461800

Yoksus Araştırmacı ID: 1051

Biyografi

Dr. Mustafa Verşan Kök was born in 1960. He attended the *International School of Prague* in the Czech Republic for his primary education. Upon graduation from Ankara Atatürk High School in Turkey, he was admitted to Petroleum and Natural Gas Engineering program at METU where he received his B.Sc. degree in 1983 and his Ph.D. degree in 1990.

Dr. Kök worked for **SHELL** Petroleum company as a well-site operation engineer between 1986-1987. He joined **CNRS-INSA de LYON** (Institut National Des Sciences Appliquées, Laboratoire de Thermochimie Minerale) of France in 1993 and **ELF** Petroleum company research center in 1994. Dr. Kök worked as a Visiting Professor in the UK, Germany and Hungary for more than 1.5 years between 1995 and 2000.

Between 2001-2006, Dr. Kök served as the Adviser to the President of TÜBİTAK (The Scientific and Technological Research Council of Turkey). His position at TÜBİTAK included Turkey's membership related to the EU's 6th Framework Programme (FP6), which is listed under the priority of Sustainable Development, Global Change and Ecosystems (SUST) and Joint Research Center (JRC). Dr. Kök worked for **CNRS-ICARE** of France in Orleans as a Visiting Professor from December 2015 to May 2016.

Dr. Kök's more than thirty years of academic life is devoted to energy, drilling and production technologies as well as the enhancement of oil recovery techniques and fossil fuel characterization. Dr. Kök's academic works included **216** articles in SCI journals and **83** international conference papers. These papers received more than **5400** citations and his Web of Science (WoS) h-index is **45**. Dr. Kök has been involved in more than 35 national and international projects, through which Dr. Kök received **2** Science, **24** Research, Achievement and Promotional awards granted by several national and international institutions. These achievements and awards include *National Foundation for Development of Mining Science Award* in 2007 and *Prof. Dr. Mustafa Parlar Foundation Science Award* in 2008. In the same year, Dr. Kök was awarded *the International Leader Scientist and Engineer* by OIC. On February 28, 2019, Kazan Federal State University bestowed on Dr. Kök an **Honorary Doctorate** title.

Dr. Kök worked as the Chair of the Petroleum and Natural Gas Engineering Department at METU and was selected the Dean of the Faculty of Engineering in November 2015. Dr. Mustafa Verşan Kök was appointed the President of Middle East Technical University in July 2016 and continues to serve in this role.

Dr. Kök is the Principal Member of Turkish Academy of Science (TÜBA).

Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Petrol Ve Doğal Gaz Mühendisliği, Türkiye 1985 - 1990

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, DSC and TGA Investigation of Combustion Kinetics for Crude Oil Lignite Mixtures, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Petrol Ve Doğal Gaz Mühendisliği, 1990

Araştırma Alanları

Rezervuar, Sondaj, Üretim

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol ve Doğal Gaz Mühendisliği Bölümü, 2001 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol ve Doğal Gaz Mühendisliği Bölümü, 1995 - 2001

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol ve Doğal Gaz Mühendisliği Bölümü, 1991 - 1995

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol ve Doğal Gaz Mühendisliği Bölümü, 1988 - 1991

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol ve Doğal Gaz Mühendisliği Bölümü, 1983 - 1987

Akademik İdari Deneyim

Rektör, Orta Doğu Teknik Üniversitesi, Rektörlük, 2016 - Devam Ediyor

Dekan, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, 2015 - 2016

Bölüm Başkanı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol ve Doğal Gaz Mühendisliği Bölümü, 2015 - 2015

Bölüm Başkan Yardımcısı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Petrol ve Doğal Gaz Mühendisliği Bölümü, 1996 - 2000

Verdiği Dersler

DRILLING TECHNOLOGY II, Lisans, 2020 - 2021

DRILLING TECHNOLOGY I, Lisans, 2019 - 2020

Yönetilen Tezler

KÖK M. V., Jeotermal kuyularда yaşanan buru ve kaçak problemlerinin sondaj sıvısı yönünden incelenmesi, Doktora,

A.Sönmez(Öğrenci), 2020

Kök M. V., NANOPARTICLE-STABILIZED CO₂ FOAMS TO IMPROVE CONVENTIONAL CO₂ EOR PROCESS AT BATI RAMAN FIELD, Doktora, S.ESRA(Öğrenci), 2019

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KÖK M. V., Development of a screening model for the cyclic steam injection (CSI) process, Yüksek Lisans, G.YALGIN(Öğrenci), 2018

Kök M. V., Finite Element Analysis of Method Sinusoidal Buckling Behavior of Drill String in Vertical Wellbores and Comparision with Analytical Solutions , Yüksek Lisans, M.CEBECİ(Öğrenci), 2018

Kök M. V., Variable-rate, variable-pressure Production from a Fractured Gas Well with LargeViscosity and Compressibility variation: Applicability of Superposition Time, Doktora, K.Gizem(Öğrenci), 2017

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KÖK M. V., An experimental study of silicate-polymer gel systems to seal shallow water flow and lost circulation zones in top hole drilling, Yüksek Lisans, A.AY(Öğrenci), 2012

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KÖK M. V., Performance analysis of drilling fluid liquid lubricants, Yüksek Lisans, A.SÖNMEZ(Öğrenci), 2011

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KÖK M. V., Thermal characterization and kinetics of crude oils by TGA and DSC methods, Yüksek Lisans, S.ASLI(Öğrenci), 2010

KÖK M. V., Clean coal and carbon capture and storage technology roadmap of Turkey, Yüksek Lisans, A.VURAL(Öğrenci), 2010

KÖK M. V., Basınç yönetimi sondaj teknikleri, ekipmanları ve uygulamaları., Yüksek Lisans, E.Tercan(Öğrenci), 2010

Kök M. V., Turkey as a Major Gas Transit Hub Country , Doktora, T.Umucu(Öğrenci), 2008

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KÖK M. V., Trajectory estimation in directional drilling using bottom hole assembly (BHA) analysis, Yüksek Lisans,

S.DOĞAY(Öğrenci), 2007

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L.GÜZELOĞLU(Öğrenci), 2005

KÖK M. V., Saha verisi yardımıyla elmaslı karot sondaj matkabı seçiminde veritabanı geliştirilmesi, Yüksek Lisans,

L.Güzeloglu(Öğrenci), 2005

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assessment methods, Yüksek Lisans, T.EGEMEN(Öğrenci), 2003

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T.Alikaya(Öğrenci), 2001

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KÖK M. V., Measurement of rock mechanics properties of Haymana limestone and Elazığ Termin sandstone reservoir rocks, Yüksek Lisans, A.GÜRKAN(Öğrenci), 2001

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KÖK M. V., Kök M., Rheological behaviour of bentonite suspensions, Yüksek Lisans, T.Batmaz(Öğrenci), 1997

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Orta Doğu Teknik Üniversitesi, Kasım, 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. Characterization and kinetics of diesel-biodiesel blends by non-isothermal thermal analysis techniques

KÖK M. V., Güresci E. T., Varfolomeev M. A., Nurgaliev D. K.

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II. Thermal and mass spectrometer analysis (TG - DTG - MS) of different oAPI gravity crude oils from new oil fields in Turkey

KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.

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III. Decomposition behavior and kinetics of Beydili and Ihsangazi oil shale deposits (Turkiye) by TG-DTG-MS

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IV. Thermal characteristics and model-free kinetics of oil shale samples

- KÖK M. V., Bal B., Varfolomeev M. A., Nurgaliev D. K.
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- V. Application of TGA-MS technique for oil shale characterization and kinetics
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- VI. Nanoparticle-stabilized CO₂ foam to improve conventional CO₂ EOR process and recovery at Bati Raman oil field, Turkey
Safran S. E., KÖK M. V.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.208, 2022 (SCI-Expanded)
- VII. The combustion performance and kinetics of Saray-Thrace region coal: The effects of particle size and heating rate
KÖK M. V., YILDIRIM B.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.208, 2022 (SCI-Expanded)
- VIII. Comprehensive approach to torque and lost circulation problems in geothermal wells in terms of drilling fluid
Sonmez A., KÖK M. V., BAL B., Bagatir G., Gucuyener I. H.
Geothermics, cilt.95, 2021 (SCI-Expanded)
- IX. TGA and DSC investigation of different clay mineral effects on the combustion behavior and kinetics of crude oil from Kazan region, Russia
KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.200, 2021 (SCI-Expanded)
- X. Effect of inlet pressure on crude oil combustion -laboratory approach-
KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.198, 2021 (SCI-Expanded)
- XI. Combustion mechanism and model free kinetics of different origin coal samples: Thermal analysis approach
Jayaraman K., KÖK M. V., Gokalp I.
ENERGY, cilt.204, 2020 (SCI-Expanded)
- XII. Low-temperature oxidation reactions of crude oils using TGA-DSC techniques
KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, cilt.141, sa.2, ss.775-781, 2020 (SCI-Expanded)
- XIII. Gasification kinetics of Thrace region coal by thermogravimetry analysis
Kök M. V., Yildirim B.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.188, 2020 (SCI-Expanded)
- XIV. The effect of water on combustion behavior of crude oils
KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.186, 2020 (SCI-Expanded)
- XV. Effects of silica nanoparticles on the performance of water-based drilling fluids
KÖK M. V., BAL B.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.180, ss.605-614, 2019 (SCI-Expanded)
- XVI. Determination of SARA fractions of crude oils by NMR technique
Kok M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.179, ss.1-6, 2019 (SCI-Expanded)
- XVII. Thermal characterization of crude oils by pressurized differential scanning calorimeter (PDSC)
Kok M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.177, ss.540-543, 2019 (SCI-Expanded)
- XVIII. Gasification profiles of Thrace region coal under CO₂, N₂/CO₂, and N₂/DRY air environments
Kök M. V., Yildirim B.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.175, ss.237-245, 2019 (SCI-Expanded)
- XIX. Wax appearance temperature (WAT) determinations of different origin crude oils by differential scanning calorimetry

- KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.168, ss.542-545, 2018 (SCI-Expanded)
- XX. Isoconversional methods to determine the kinetics of crude oils - thermogravimetry approach
KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, cilt.167, ss.480-485, 2018 (SCI-Expanded)
- XXI. A new drilling performance benchmarking: ROP indexing methodology
Eren T., KÖK M. V.
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- XXII. Application of different EOR techniques for the energy and recovery of Ashal'cha oil field
KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.40, sa.6, ss.645-653, 2018 (SCI-Expanded)
- XXIII. Oxidation Behavior of Light Crude Oil and Its SARA Fractions Characterized by TG and DSC Techniques: Differences and Connections
Yuan C., Varfolomeev M. A., Emelianov D. A., Eskin A. A., Nagrimanov R. N., KÖK M. V., Afanasiev I. S., Fedorchenco G. D., Kopylova E. V.
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- XXIV. Fluid migration and rheological properties of different origin G-class cements in oil well drilling applications
KÖK M. V., Karakaya G.
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- XXV. Pyrolysis, combustion and gasification studies of different sized coal particles using TGA-MS
Jayaraman K., KÖK M. V., Gokalp I.
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- XXVI. Thermal characterization of crude oils in the presence of limestone matrix by TGA-DTG-FTIR
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- XXVII. Crude oil characterization using TGA-DTA, TGA-FTIR and TGA-MS techniques
KÖK M. V., Varfolomeev M. A., Nurgaliev D. K.
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- XXVIII. Combustion properties and kinetics of different biomass samples using TG-MS technique
Jayaraman K., KÖK M. V., Gokalp I.
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- XXX. Torque and drag field applications in horizontal wells
EREN T., Caglayan B. K., KÖK M. V.
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- XXXI. Characterization of lignocellulose biomass and model compounds by thermogravimetry
KÖK M. V., Ozgur E.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.39, sa.2, ss.134-139, 2017 (SCI-Expanded)
- XXXII. Thermal decomposition of Tatarstan Ashal'cha heavy crude oil and its SARA fractions
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- XXXIII. Combustion performance and kinetics of oil shales
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- XXXIV. Chemical evaluation and kinetics of Siberian, north regions of Russia and Republic of Tatarstan

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- XXXV. **Thermal, kinetics, and oxidation mechanism studies of light crude oils in limestone and sandstone matrix using TG-DTG-DTA: Effect of heating rate and mesh size**

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- XXXVI. **Calorimetric study approach for crude oil combustion in the presence of clay as catalyst**

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- XXXVII. **Chemical evaluation and kinetics of Siberian, north regions of Russia and Republic of Tatarstan crude oils**

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- XXXIX. **Combustion characteristics and kinetics of diesel and canola oil samples**

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- XL. **Contribution of thermal analysis and kinetics of Siberian and Tatarstan regions crude oils for in situ combustion process**

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- XLI. **Thermal characterization and model-free kinetics of biodiesel sample**

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JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, cilt.122, sa.2, ss.955-961, 2015 (SCI-Expanded)

- XLII. **Thermal Characterization and Model Free Kinetic Application on Tar Sand Sample**

Kök M. V.

Petroleum Science And Technology, cilt.33, sa.6, ss.741-749, 2015 (SCI-Expanded)

- XLIII. **Occurrence of organic matter-rich deposits (Middle Jurassic to Lower Cretaceous) from Qalikuh locality, Zagros Basin, South-West of Iran: A possible oil shale resource**

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- XLIV. **Determination of kinetic parameters of different origin coals using software**

Ertunc G., KÖK M. V.

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- XLV. **Renewable Energy Sources: Current Perspectives and Future Prospects in Turkey**

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- XLVI. **Carbon Capture and Storage: Current Perspectives, Re-use Activities, and Future Prospects in Turkey**

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- XLVII. **Thermal Characterization and Model Free Kinetic Application on a Tar Sand Sample**
Kok M. V.
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- XLVIII. **Characterization and Kinetics of Siberian and Tatarstan Regions Crude Oils Using Differential Scanning Calorimetry**
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Etkinlik Organizasyonlarındaki Görevler

Kök M. V., The 3 rd International Workshop on Thermal Methods for Enhanced Oil Recovery, Çalıştay Organizasyonu, Changde, Çin, Ekim 2018

Metrikler

Yayın: 268

Atif (WoS): 6041

Atif (Scopus): 6683

H-İndeks (WoS): 49

H-İndeks (Scopus): 51

Kongre ve Sempozyum Katılımı Faaliyetleri

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2019 EUA Annual Conference , Çalışma Grubu, Paris, Fransa, 2019

The 3 rd International Workshop on Thermal Methods for Enhanced Oil Recovery, Çalışma Grubu, Chengdu, Çin, 2018

7 th International Symposium on Global Challange for Today's Research Institues: Health, Energy & Environment and Agriculture, Çalışma Grubu, Beijing, Çin, 2018

3rd International Conference on Applied Mineralogy and Advanced Materials, Çalışma Grubu, Bari, İtalya, 2018

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Ödüller

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Kök M. V., Honorary Doctorate, Kazan Federal University, Şubat 2019

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Kök M. V., Leading Scientist and Engineers of OIC Member States , Oic - Organization Of Islamic Cooperation, Eylül 2008

Kök M. V., Bilim Ödülü, Ymgv, Mining Development Foundation Of Turkey, Eylül 2007

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Kök M. V., Teşvik ödülü, Tübitak, Eylül 1999

Kök M. V., Araştırma Teşvik Ödülü, Metu, Middle East Technical Univ., Foundation Of Prof. Dr. Tarık Somer, Eylül 1999

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