Prof. GÖRKEM KÜLAH

Personal Information

Office Phone: <u>+90 312 210 4345</u> Email: gorkemk@metu.edu.tr

Web: https://avesis.metu.edu.tr/gorkemk

International Researcher IDs ScholarID: 6Z_vVL8AAAAJ ORCID: 0000-0002-7254-2832

Publons / Web Of Science ResearcherlD: AAZ-9338-2020

ScopusID: 24071182800 Yoksis Researcher ID: 164335

Education Information

1999 - 2004	Doctorate, The University of British Columbia, Chemical Engineering, Canada
1998 - 1999	Postgraduate, Middle East Technical University, Graduate School of Natural and Applied
	Sciences, Kimya Mühendisliği (YI) (Tezli), Turkey
1993 - 1998	Undergraduate, Middle East Technical University, Faculty of Engineering, Department of
	Chemical Engineering, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

2004	Solids Motion and Mixing in High Density Circulating Fluidized Beds, The University of British
	Columbia, Doctorate
	The Method of lines solution of discrete ordinates method for radiative heat transfer in
1999	enclosures, Middle East Technical University, Graduate School of Natural and Applied Sciences,
	Graduate School of Natural and Applied Sciences, Postgraduate

Research Areas

Fluid Mechanics, Heat Transfer, Conventional Energy Systems and Their Technology, Energy storage technologies, Fuels and Combustion

Academic Titles / Tasks

2018 - Continues	Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical
	Engineering
2011 - 2018	Associate Professor, Middle East Technical University, Faculty of Engineering, Department of
	Chemical Engineering
2005 - 2011	Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of
	Chemical Engineering

Academic and Administrative Experience

2016 - Continues	Vice Dean, Middle East Technical University, Faculty of Engineering
2011 - 2014	Deputy Head of Department, Middle East Technical University, Faculty of Engineering,
2011-2014	Department of Chemical Engineering

Courses

2023 - 2024, 2022 -	
2023, 2021 - 2022,	TOPICS IN CHEMICAL ENGINEERING I, Undergraduate
2019 - 2020	
2022 - 2023, 2015 -	ChE 200 CLIENICAL ENGINEEDING LADODATODVI Lindoward ducto
2016	ChE 320 CHEMICAL ENGINEERING LABORATORY I, Undergraduate
2023 - 2024, 2018 -	ChE 440 Chamical Engine oring Labourton III Undergraduate
2019	ChE 410 Chemical Engineering Laboratory II, Undergraduate
2022 - 2023, 2021 -	
2022, 2020 - 2021,	FLUID MECHANICS, Undergraduate
2019 - 2020, 2018 -	FLOID MECHANICS, Undergraduate
2019, 2017 - 2018	
2021 - 2022, 2020 -	
2021, 2019 - 2020,	HEAT & MASS TRANSFER OPERATIONS, Undergraduate
2018 - 2019, 2013 -	TIET TO A MINIOUS TO THOSE ETA CTIETO TO STATE GRANDERS
2014	
2019 - 2020	TOPICS IN CHEMICAL ENGINEERING II, Undergraduate
2016 - 2017, 2015 -	
2016, 2011 - 2012,	ChE 532 Fluidization, Postgraduate
2010 - 2011	
2012 - 2013	ChE 432 DESIGN OF FLUIDIZED BED REACTORS, Undergraduate
2009 - 2010	CHEMICAL ENGINEERING LABORATORY III, Undergraduate

Advising Theses

2023	Külah G., Doctorate, M.SONER(Student), Coupling of a radiation model with system model of bubbling fluidized bed combustors
2022	KÜLAH G., Postgraduate, Z.TANER(Student), Investigation of slow cook-off characteristics of self-igniting energetic materials
2021	Külah G., Önal I., Doctorate, B.BAYRAM(Student), DEVELOPMENT OF THREE WAY CATALYTIC CONVERTER FOR AUTOMOTIVE EXHAUST GAS
2021	KÜLAH G., Postgraduate, N.DOĞAN(Student), Gas mixing in conical spouted beds
2019	Külah G., Postgraduate, N.ERİŞEN(Student), Modeling of reaction and degradation mechanisms in lithium-sulfur batteries
2019	Külah G., Postgraduate, N.BER(Student), EFFECT OF ELECTROLYTE/SULFUR RATIO IN THE CATHODE ON THE ELECTROCHEMICAL PERFORMANCE OF Li-S BATTERIES
2019	Külah G., Postgraduate, A.YENİÇERİ(Student), CHARACTERIZATION OF LOCAL FLOW BEHAVIOUR IN CONICAL SPOUTED BEDS
2018	Külah G., Selçuk N., Postgraduate, M.SONER(Student), Mathematical modeling of a bubbling fluidized bed combustor co-fired with cotton residue and lignite
2018	KÜLAH G., SELÇUK N., Doctorate, C.ATEŞ(Student), Nongray gas and nongray particle effects in modeling fluidized bed combustors
2017	KÜLAH G., SELÇUK N., Postgraduate, Ö.ŞEN(Student), Modeling of radiative heat transfer in strongly forward scattering media of bubbling fluidized bed combustor with and without recycle

2017	KÜLAH G., Postgraduate, O.YAMAN(Student), Bed-to-surface heat transfer in conical spouted and spout-fluid beds
2017	KÜLAH G., Postgraduate, Ö.BATIR(Student), Investigation of effect of kaolin addition on combustion characteristic of olive residue
2013	KÜLAH G., Postgraduate, C.ÖCAL(Student), Drying of natural zeolite powders in vibrated fuidized beds
2011	Selçuk N., Külah G., Postgraduate, M.YUSUF(Student), Radiative-convective model for one-dimensional cloudy sky atmosphere
2008	KÜLAH G., SELÇUK N., Doctorate, A.BATU(Student), Investigation of combustion characteristics of indigenous lignite in a 150 kWt circulating fluidized bed combustor
2008	KÜLAH G., SELÇUK N., Postgraduate, G.AYDIN(Student), Radiative-convective model for one-dimensional longwave clear sky atmosphere
2007	KÜLAH G., Postgraduate, Ö.KAYA(Student), COATING OF PHARMACEUTICAL GRANULES IN FLUIDIZED BEDS
2007	KÜLAH G., SELÇUK N., Postgraduate, E.MEHMET(Student), Mathematical modeling of fbcs co-fired with lignite and biomass
2006	KÜLAH G., SELÇUK N., Postgraduate, D.ECE(Student), Mathematical modeling of fluidized bed combustors with radiation model

Jury Memberships

September 2018	Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi
August 2018	Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi
June 2018	Post Graduate, Post Graduate, Hacettepe Üniversitesi
June 2018	PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi
January 2018	PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi

Published journal articles indexed by SCI, SSCI, and AHCI

I. Solids dispersion in high density circulating fluidized beds

KÜLAH G., Bi X., Lim C., Grace J.

Powder Technology, vol.431, 2024 (SCI-Expanded)

II. Axial gas mixing in conical spouted beds with high density particles

Doğan N., Köksal M., Külah G.

Particuology, vol.81, pp.45-57, 2023 (SCI-Expanded)

III. Thermal stability and SO2 resistance of Pd/Rh-perovskite based three-way catalyst wash-coated on cordierite monoliths

Bayram B., Önal I., Külah G.

CHEMICAL ENGINEERING COMMUNICATIONS, vol.210, no.2, pp.205-222, 2023 (SCI-Expanded)

IV. Coupling of spectral thermal radiation model with a comprehensive system model for co-combustion of biomass in bubbling fluidized bed

YAŞAR M. S., SELÇUK N., KÜLAH G.

Fuel, vol.333, 2023 (SCI-Expanded)

V. Effect of Particle Size Distribution and Complex Refraction Index of Alumina on Infrared Rocket Plume Signatures

YAŞAR M., Ozen G., SELÇUK N., KÜLAH G.

Combustion Science and Technology, vol.195, no.14, pp.3232-3247, 2023 (SCI-Expanded)

VI. Performance and validation of a radiation model coupled with a transient bubbling fluidized bed combustion model

YAŞAR M. S., SELÇUK N., KÜLAH G.

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.176, 2022 (SCI-Expanded)

VII. Influence of bag filter ash to spectral thermal radiation in fluidized bed combustors Co-Fired with biomass

YAŞAR M. S., SELÇUK N., KÜLAH G.

International Journal of Thermal Sciences, vol.167, 2021 (SCI-Expanded)

VIII. Influence of soot on radiative heat transfer in bubbling fluidized bed combustors YAŞAR M. S., SELÇUK N., KÜLAH G.

Journal of Quantitative Spectroscopy and Radiative Transfer, vol.270, 2021 (SCI-Expanded)

IX. Gas velocity distribution in conical spouted beds with high-density particles DOĞAN N., KÖKSAL M., KÜLAH G.

CANADIAN JOURNAL OF CHEMICAL ENGINEERING, vol.99, no.7, pp.1607-1615, 2021 (SCI-Expanded)

X. Performance of banded SLW-1 in presence of non-gray walls and particles in fluidized bed combustors

YAŞAR M. S., Ozen G., SELÇUK N., KÜLAH G.

JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.257, 2020 (SCI-Expanded)

XI. Assessment of improved banded model for spectral thermal radiation in presence of non-gray particles in fluidized bed combustors

YAŞAR M. S., Ozen G., SELÇUK N., KÜLAH G.

APPLIED THERMAL ENGINEERING, vol.176, 2020 (SCI-Expanded)

XII. Comment on "Deciphering conical spouted bed hydrodynamics using high intensity microphone" Yaman O., KÖKSAL M., KÜLAH G.

NUCLEAR ENGINEERING AND DESIGN, vol.353, 2019 (SCI-Expanded)

XIII. Modeling of Fluidized Bed Combustion of Lignite with High Nitrogen Content Cotton Residue Yasar M. S., Selcuk N., Kulah G.

COMBUSTION SCIENCE AND TECHNOLOGY, 2019 (SCI-Expanded)

XIV. Detecting stability of conical spouted beds based on information entropy theory

Savari C., Sotudeh-Gharebagh R., KÜLAH G., KÖKSAL M., Mostoufi N.

POWDER TECHNOLOGY, vol.343, pp.185-193, 2019 (SCI-Expanded)

XV. Surface-to-bed heat transfer for high-density particles in conical spouted and spout-fluid beds Yaman O., Külah G., Köksal M.

PARTICUOLOGY, vol.42, pp.35-47, 2019 (SCI-Expanded)

XVI. Assessment of SLW-1 model in the presence of gray and non-gray particles

Özen G., ATEŞ C., Selçuk N., KÜLAH G.

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.136, pp.420-432, 2019 (SCI-Expanded)

XVII. Effect of kaolin addition on alkali capture capability during combustion of olive residue Batir O., Selcuk N., Kulah G.

COMBUSTION SCIENCE AND TECHNOLOGY, vol.191, pp.43-53, 2019 (SCI-Expanded)

 $\begin{tabular}{ll} XVIII. & Influence of gray particle assumption on the predictive accuracy of gas property approximations \\ Ates C., SELÇUK N., KÜLAH G. \end{tabular}$

JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.220, pp.67-83, 2018 (SCI-Expanded)

XIX. A new correlation for minimum spouting velocity for conical spouted beds operating with high density particles

GOLSHAN S., YAMAN O., KÖKSAL M., KÜLAH G., ZARGHAMI R., MOSTOUFI N.

EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.96, pp.358-370, 2018 (SCI-Expanded)

XX. Influence of fly ash composition on non-gray particle radiation in combusting systems Ates C., SELÇUK N., KÜLAH G.

JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.215, pp.25-40, 2018 (SCI-Expanded)

XXI. Significance of particle concentration distribution on radiative heat transfer in circulating fluidized bed combustors

Ates C., SELCUK N., KÜLAH G.

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.117, pp.58-70, 2018 (SCI-Expanded)

XXII. Effect of changing biomass source on radiative heat transfer during co-firing of high-sulfur content lignite in fluidized bed combustors

Ates C., SELÇUK N., KÜLAH G.

APPLIED THERMAL ENGINEERING, vol.128, pp.539-550, 2018 (SCI-Expanded)

XXIII. Effect of limestone addition on radiative heat transfer during co-firing of high-sulfur content lignite with biomass in fluidized bed combustors

Ates C., Selcuk N., Kulah G.

COMBUSTION SCIENCE AND TECHNOLOGY, vol.190, no.8, pp.1377-1391, 2018 (SCI-Expanded)

 $XXIV. \quad \textbf{Assessment of gas radiative property models in the presence of nongray particles} \\$

Ates C., OZEN G., Selcuk N., Kulah G.

NUMERICAL HEAT TRANSFER PART A-APPLICATIONS, vol.73, no.6, pp.385-407, 2018 (SCI-Expanded)

XXV. Influence of spectral particle properties on radiative heat transfer in optically thin and thick media of fluidized bed combustors

Ates C., Sen O., SELÇUK N., KÜLAH G.

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.122, pp.266-280, 2017 (SCI-Expanded)

XXVI. Monitoring of liquid sprayed conical spouted beds by recurrence plots

Savari C., KÜLAH G., KÖKSAL M., Sotudeh-Gharebagh R., Zarghami R., Mostoufi N.

POWDER TECHNOLOGY, vol.316, pp.148-156, 2017 (SCI-Expanded)

XXVII. Benchmarking grey particle approximations against nongrey particle radiation in circulating fluidized bed combustors

Ates C., SELÇUK N., Ozen G., Kulah G.

NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS, vol.71, no.5, pp.467-484, 2017 (SCI-Expanded)

XXVIII. Radiative heat transfer in strongly forward scattering media of circulating fluidized bed combustors Ates C., Ozen G., SELÇUK N., KÜLAH G.

JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.182, pp.264-276, 2016 (SCI-Expanded)

XXIX. Early Detection of Agglomeration in Conical Spouted Beds Using Recurrence Plots

Savari C., KÜLAH G., Sotudeh-Gharebagh R., Mostoufi N., KÖKSAL M.

INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.55, no.26, pp.7179-7190, 2016 (SCI-Expanded)

XXX. Particle Velocity, Solids Hold-Up, and Solids Flux Distributions in Conical Spouted Beds Operating with Heavy Particles

KÜLAH G., Sari S., KÖKSAL M.

INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.55, no.11, pp.3131-3138, 2016 (SCI-Expanded)

XXXI. CFD Simulations of Hydrodynamics of Conical Spouted Bed Nuclear Fuel Coaters

Lule S. S., Çolak Ü., KÖKSAL M., KÜLAH G.

CHEMICAL VAPOR DEPOSITION, vol.21, pp.122-132, 2015 (SCI-Expanded)

XXXII. Flow structure characterization in conical spouted beds using pressure fluctuation signals MOSTOUFI N., KÜLAH G., KÖKSAL M.

POWDER TECHNOLOGY, vol.269, pp.392-400, 2015 (SCI-Expanded)

XXXIII. COMPARISON BETWEEN COMBUSTION BEHAVIOR OF SOLID FUELS AND THEIR CHARS UNDER OXY-FUEL CONDITIONS

Inmas S. V., KÜLAH G., SELÇUK N.

COMBUSTION SCIENCE AND TECHNOLOGY, vol.186, pp.398-408, 2014 (SCI-Expanded)

XXXIV. Characterization of gas-solid flow in conical spouted beds operating with heavy particles Sari S., KÜLAH G., KÖKSAL M.

EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.40, pp.132-139, 2012 (SCI-Expanded)

XXXV. Investigation and scale-up of hot-melt coating of pharmaceuticals in fluidized beds

KÜLAH G., Kaya O.

POWDER TECHNOLOGY, vol.208, no.1, pp.175-184, 2011 (SCI-Expanded)

XXXVI. Validation of a FBC model for co-firing of hazelnut shell with lignite against experimental data KÜLAH G.

EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.34, no.5, pp.646-655, 2010 (SCI-Expanded)

XXXVII. Design assessment of a 150 kWt CFBC Test Unit

Batu A., SELÇUK N., KÜLAH G.

EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.34, no.3, pp.275-281, 2010 (SCI-Expanded)

XXXVIII. Mathematical Modeling of a Bubbling Fluidized Bed Combustor Cofired with Lignite and Biomass KÜLAH G., Morali E. M., SELÇUK N.

COMBUSTION SCIENCE AND TECHNOLOGY, vol.182, pp.600-612, 2010 (SCI-Expanded)

XXXIX. A comprehensive fluidized bed combustion model coupled with a radiation model Alagoz D. E., KÜLAH G., SELÇUK N.

COMBUSTION SCIENCE AND TECHNOLOGY, vol.180, no.5, pp.910-926, 2008 (SCI-Expanded)

XL. Flow behavior and regime transition in a high-density circulating fluidized bed riser Kim S., Kirbas G., Bi H., Lim C., Grace J.

CHEMICAL ENGINEERING SCIENCE, vol.59, no.18, pp.3955-3963, 2004 (SCI-Expanded)

XLI. Flow structure and thickness of annular downflow layer in a circulating fluidized bed riser Kim S., Kirbas G., Bi H., Lim C., Grace J.

POWDER TECHNOLOGY, vol.142, no.1, pp.48-58, 2004 (SCI-Expanded)

XLII. The method of lines solution of the discrete ordinates method for radiative heat transfer in enclosures

Selcuk N., Kirbas G.

NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS, vol.37, no.3, pp.379-392, 2000 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. CFD-DEM MODELING OF CONICAL SPOUTED BED SOLAR RECEIVERS

ÖZDEMİR A. E., DOĞAN N., KÜLAH G., KÖKSAL M.

ULUSLARARASI KATILIMLI 24. ISI BİLİMİ VE TEKNİĞİ KONGRESİ (ULIBTK'23), Ankara, Turkey, 6 - 08 September 2023

II. CFD-DEM MODELING OF CONICAL SPOUTED BED SOLAR RECEIVERS

Özdemir A. E., Doğan N., Külah G., Köksal M.

 $2023\ Multiphase\ Flow\ Science\ Workshop,\ West\ Virginia,\ United\ States\ Of\ America,\ 1-02\ August\ 2023$

III. EFFECT OF PARTICLE SIZE DISTRIBUTION AND COMPLEX REFRACTION INDEX OF ALUMINA ON INFRARED ROCKET PLUME SIGNATURES

YAŞAR M. S., Özen G., SELÇUK N., KÜLAH G.

12th Mediterranean Combustion Symposium, Luxor, Egypt, 23 January 2023

IV. Coupling of Spectral Thermal Radiation Model with a Comprehensive System Model for Co-Combustion of Biomass in Bubbling Fluidized Bed

YAŞAR M. S., SELÇUK N., KÜLAH G.

24th Fluidized Bed Conversion Conference, Göteborg, Sweden, 8 - 11 May 2022

V. MODELLING OF FBC OF LIGNITE WITH HIGH NITROGENCONTENT COTTON RESIDUE

Yaşar M. S., Selçuk N., Külah G.

11th Mediterranean Combustion Symposium, Tenerife, Spain, 16 - 20 June 2019

VI. Gas Velocity Distributions in Conical Spouted Beds with High Density Particles GÜLER N., KÖKSAL M., KÜLAH G.

Fluidization XVI, Guilin, China, 26 - 31 May 2019

 $\hbox{VII.} \quad \hbox{Modeling of reaction mechanisms in lithium-sulfur batteries} \\ \vdots \\$

ERİŞEN N., KÜLAH G., EROĞLU PALA D.

9th Eastern Mediterranean Chemical Engineering Conference (EMCC 9), Ankara, Turkey, 31 August - 02 September 2018

VIII. Modeling the effect of electrolyte-to-sulfur ratio in the cathode on the electrochemical performance of a lithium-sulfur battery

Emerce N. B., KÜLAH G., EROĞLU PALA D.

9th Eastern Mediterranean Chemical Engineering Conference (EMCC 9), Ankara, Turkey, 31 August - 02 September 2018

IX. INFLUENCE OF SPECTRAL PARTICLE PROPERTIES ON THE PREDICTIVE ACCURACY OF GAS PROPERTY APPROXIMATIONS

ATEŞ C., Selçuk N., KÜLAH G.

Eurotherm Seminar 110 – Computational Thermal Radiation in Participating Media - VI, Cascais, Portugal, 11 - 13 April 2018

X. Course Design for Curriculum Internationalization: Project- Based International Learning Experience @Home

Stefanova A., Bandali Z., AYRANCI İ., KÜLAH G.

67th Canadian Chemical Engineering Conference, Edmonton, Canada, 22 - 25 October 2017

XI. Effects of particle density and gas inlet diameter on particle velocity, solids hold-up and flux distributions in conical spouted beds with high density particles

Golshan S., Yeniceri A., Zarghami R., Mostoufi N., KÖKSAL M., KÜLAH G.

7th International Symposium on Spouted Beds (ISSB-7), Barselona, Spain, 1 - 05 October 2017

XII. Surface-to-Bed Heat Transfer in Conical Spout-Fluid Beds with High Density Particles Yaman O., KÖKSAL M., KÜLAH G.

Symposium on Spouted Beds (ISSB-7), Barselona, Spain, 1 - 05 October 2017

XIII. Effect Of Limestone Addition on Radiative Heat Transfer During Co-Firing of High-Sulfur Content Lignite With Biomass in Fluidized Bed Combustors

ATEŞ C., Selçuk N., KÜLAH G.

10th Mediterranean Combustion Symposium, Napoli, Italy, 17 - 21 September 2017

XIV. Effect Of Kaolin Addition On Alkali Capture Capability During Combustion Of Olive Residue Batir O., Selçuk N., KÜLAH G.

10th Mediterranean Combustion Symposium, Napoli, Italy, 17 - 21 September 2017

XV. CFD-DEM Simulation of a Conical Spouted Bed Operating with High Density Particles Golshan S., Zarghami R., Mostoufi N., KÖKSAL M., KÜLAH G.

7th International Conference on Discrete Element Methods (DEM), Dalian, China, 1 - 04 August 2016, vol.188, pp.947-955

XVI. Monitoring of the hydrodynamic instabilities inconical spouted beds by recurrence plot analysis of pressure fluctuations and acoustic emission signals

Savari C., KÜLAH G., KÖKSAL M., SotudehGharebagh R., Mostoufi N., Zarghami R.

FLUIDIZATION XV, 22 - 27 May 2016

XVII. Hydrodynamic characteristics of fine zeolite particles in a conical spout fluid bed with a draft tube Nasirimarekani V., Karabiyik A. G., KÖKSAL M., KÜLAH G.

64th Canadian Chemical Engineering Conference, 19 - 22 October 2014

XVIII. Simultaneous analyses of pressure vibration and acoustic signals from a conical spouted bed with high density particles

Nasirimarekani V., KÜLAH G., KÖKSAL M., Savari C., Mostoufi N., Sotudeh Ghare R.

64th Canadian Chemical Engineering Conference, 19 - 21 October 2014

XIX. Comparison between combustion behaviour of solid fuels and their chars under oxy fuel conditions Inmas S. V., KÜLAH G., Selçuk N.

8th Mediterranean Combustion Symposium, 8 - 13 September 2013

XX. Gas Mixing in Conical Spouted Beds with Heavy Particles

Külah G.

6th International Symposium on Spouted Beds, Vancouver, Canada, 14 - 17 October 2012, pp.295

XXI. Characterization of Gas-Solid Flow in Vibrated Fluidized Beds Operating with Natural Zeolite Powders

Külah G.

62nd Canadian Chemical Engineering Conference, Vancouver, Canada, 14 - 17 October 2012, pp.541

XXII. Design Assessment of a 150 kWt CFBC Test Unit

Batu A., Selçuk N., KÜLAH G.

Proceedings of the 6th Mediterranean Combustion Symposium, 7 - 11 September 2009

XXIII. Evaluation of Method of Lines Solution of Discrete Ordinates Method and Finite Volume Method in a Planar Medium

Selçuk N., KIRBAŞ G., Tarhan T.

Int. Conf. Computational Heat and Mass Transfer, 26 - 29 April 1999

XXIV. A Novel System for Measuring Solids Dispersion In Circulating Fluidized Beds

KÜLAH G., Song X. Q., Bi H. T., Lim C. J., Grace J. R.

Proceedings of the 9th International Conference on Circulating Fluidized Beds, 13 - 16 January 2008

XXV. Mathematical Modeling of a Bubbling FBC Co fired with Lignite and Biomass KÜLAH G., Moralı E. M., Selçuk N.

Proceedings of the 6th Mediterranean Combustion Symposium, 7 - 11 June 2009

XXVI. Hydrodynamics of Conical Spouted Beds With High Density Particles

Sari S., Polat A., Zaglanmis D., KÜLAH G., KÖKSAL M.

Proceeding of 10th International Conference on Circulating Fluidized Beds, 1 - 05 May 2011

XXVII. Radiative Convective Model for One Dimensional Longwave Clear Sky Atmosphere Aydin G., KÜLAH G., Selçuk N.

Eurotherm Seminar #83 - Computational Thermal Radiation in Participating Media, 15 - 17 April 2009

XXVIII. A COMPREHENSIVE FLUIDIZED BED COMBUSTION MODEL COUPLED WITH A RADIATION MODEL Alagoz D. E., KÜLAH G., Selçuk N.

Proceedings of the 5th Mediterranean Combustion Symposium, 9 - 13 September 2007

XXIX. Radial Distribution of Local Concentration Weighted Particle Velocities in High Density Circulating Fluidized Beds

KIRBAŞ G., Kim S. W., Bi X., Lim J., Grace J. R.

Proceedings of the 12th Fluidization Conference, 13 - 17 May 2007

XXX. Multiscale analysis of solids flux signals measured in a high density circulating fluidized bed using wavelet transformation

Kirbas G., Ellis N.

8th International Conference on Circulating Fluidized Beds, Hangzhou, China, 10 - 13 May 2005, pp.75-82

XXXI. Solids Motion near the Wall of High Density Circulating Fluidized Beds

KIRBAŞ G., Lim C. J., Grace J. R., Bi H. T.

Proceedings of 4th World Congress on Particle Technology, 21 - 25 July 2002

Supported Projects

2022 - 2024	Konsantre Güneş Enerjisi Sistemleri İçin Taşkın Yatak Alıcısı Geliştirilmesi, TUBITAK Project
	PAMUK ARTIĞI VE LİNYİTİN KABARCIKLI AKIŞKAN YATAKLI YAKICIDA BİRLİKTE
2018 - 2019	YAKILMASININ MATEMATİKSEL MODELLENMESİ, Project Supported by Higher Education
	Institutions
2015 - 2018	Taskın Akıskan Yataklarda Gaz Parçacık Akıs Dinamigi ve Yatak Yüzey lsı Transferi, TUBITAK
	Project
2017 - 2017	DEVELOPMENT OF THREE WAY CATALYTIC CONVERTER FOR AUTOMOTIVE EXHAUST
	GAS, Project Supported by Higher Education Institutions
2017 - 2017	Dolaşımlı Akışkan Yataklı Yakıcı Sisteminde Işınım Isı Akısının Ölçülmesi, Project Supported by
	Higher Education Institutions

2017 - 2017	Otomobil Egzoz Gazları için Üç Yollu Katalitik Dönüştürücü Geliştirilmesi, Project Supported by Higher Education Institutions
	PAMUK ARTIĞI VE LİNYİTİN KABARCIKLI AKIŞKAN YATAKLI YAKICIDA BİRLİKTE
2017 - 2017	YAKILMASININ MATEMATİKSEL MODELLENMESİ, Project Supported by Higher Education Institutions
2017 - 2017	AKIŞKAN YATAKLI YANMA ODALARINDA PARÇAÇIK TAŞINMASININ İNCELENMESİ,
2017 - 2017	Project Supported by Higher Education Institutions
2014 - 2016	FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, Project Supported by Higher
2014 - 2010	Education Institutions
2012 - 2015	Doğal Zeolit Klinoptilolitin Akış Borulu Taşkın-Akışkan Yatakta Kurutulması, TUBITAK Project
2012 - 2015	Doğal Zeolit Klinoptilolitin Akış Borulu Taşkın Akışkan Yatakta Kurutulması, TUBITAK Project
2014 - 2014	Rafinerici Yetistirme Egitim Programi Proses Muhendisleri Gelisim Projesi RAYEP, Company
2012 - 2013	Klinoptilolitin Titreşimli Akışkan Yatakta Kurutulması, Project Supported by Higher Education
	Institutions
2012 - 2013	Kilinoptilolitin Titreşimli Akışkan Yatakta Kurutulması, Project Supported by Higher Education
	Institutions
2005 - 2008	Silopi Termik Santralı nın Teknoloji Seçimi, Company

Activities in Scientific Journals

2022 - 2023 FUEL, Special Issue Editor

Memberships / Tasks in Scientific Organizations

2019 - Continues	European Society for Engineering Education, Executive Board Member
2012 - Continues	International Centre for Heat and Mass Transfer, Member of Science Committee
2018 - 2022	Enerji-Fosil Yakıtlar-Kömür, Biyokütle ve Atık Teknolojileri, Member of Advisory Board

Scientific Refereeing

September 2022	SEFI Annual Conference, Conference Paper (Abstract)
September 2022	SEFI Annual Conference, Conference Paper (Abstract)
September 2022	SEFI Annual Conference, Conference Paper (Abstract)
September 2022	SEFI Annual Conference, Conference Paper (Full Text)
April 2022	POWDER TECHNOLOGY, SCI Journal
March 2022	APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E
September 2020	48th SEFI Annual Conference, Conference Paper (Full Text)
September 2020	48th SEFI Annual Conference, Conference Paper (Full Text)
September 2020	48th SEFI Annual Conference, Conference Paper (Full Text)
August 2019	POWDER TECHNOLOGY, SCI Journal
October 2018	POWDER TECHNOLOGY, SCI Journal
July 2018	FUEL PROCESSING TECHNOLOGY, SCI Journal
July 2018	TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical
July 2010	University, Turkey
July 2018	TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical
duly 2010	University, Turkey
May 2018	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, SCI Journal
April 2018	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, SCI Journal
March 2018	PARTICUOLOGY, SCI Journal

February 2018	Particuology, SCI Journal
January 2018	PARTICUOLOGY, SCI Journal

Tasks In Event Organizations

23 Ocak 2023	Külah G., 12th Mediterranean Combustion Symposium, Scientific Congress, Egypt
08 Mayıs 2022	Külah G., Fluidized Bed Conversion Conference, Scientific Congress, Sweden
16 Haziran 2019	Külah G., 11th Mediterranean Combustion Symposium, Scientific Congress, Spain
17 Eylül 2017	Külah G., 10th Mediterranean Combustion Symposium, Scientific Congress, Italy

Metrics

Publication: 73 Citation (WoS): 538 Citation (Scopus): 585 H-Index (WoS): 16 H-Index (Scopus): 16

Awards

December 2018	Gri – Olmayan Gaz ve Gri – Olmayan Parçacık Etkilerinin Akışkan Yataklı Yakıcılarda
December 2016	Modellenmesi, Mustafa Parlar Vakfı
January 2011	ODTÜ Geliştirme Vakfı Genç Araştırmacı Başarı Ödülü , Odtü Geliştirme Vakfı
January 2006	ODTÜ Prof. Dr. Tarık G. Somer Akademik Başarı Ödülü, Tarık Somer Vakfı

Non Academic Experience

2023 - Continues	Professional Association, SEFI- European Society for Engineering Education , SEFI-Curriculum
	Development
2023 - Continues	Professional Association, SEFI- European Society for Engineering Education, SEFI-
	Engineering Skills
2019 - Continues	Professional Association, SEFI- European Society for Engineering Education, European
	Engineering Deans Council
2018 - Continues	European Society for Engineering Education
2018 - 2024	Professional Association, European Society for Engineering Education (SEFI), Member of
	Board of Directors