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### Yönetilen Tezler

KÜLAH G., SELÇUK N., Nongray gas and nongray particle effects in modeling fluidized bed combustors, Doktora, C.ATEŞ(Öğrenci), 2018

Külah G., Selçuk N., Mathematical modeling of a bubbling fluidized bed combustor co-fired with cotton residue and lignite, Yüksek Lisans, M.SONER(Öğrenci), 2018

KÜLAH G., SELÇUK N., Modeling of radiative heat transfer in strongly forward scattering media of bubbling fluidized bed combustor with and without recycle, Yüksek Lisans, Ö.ŞEN(Öğrenci), 2017

SELÇUK N., Thermal radiation from solid propellant rocket motor plume, Doktora, G.ÖZEN(Öğrenci), 2015

SELÇUK N., KÜLAH G., Bir boyutlu, bulutlu atmosfer için ışınım-taşınım modeli, Yüksek Lisans, M.Yusuf(Öğrenci), 2011

Selçuk N., Külah G., Radiative-convective model for one-dimensional cloudy sky atmosphere, Yüksek Lisans, M.YUSUF(Öğrenci), 2011

SELÇUK N., Pyrolysis and combustion behaviour of various fuels in oxygen-enriched air and CO<sub>2</sub> atmospheres, Yüksek Lisans, N.SENA(Öğrenci), 2011

SELÇUK N., Simulation of circulating fluidized bed combustors firing indigenous lignite, Yüksek Lisans, M.ÖZKAN(Öğrenci), 2010

SELÇUK N., Utilization of fluidized bed combustion ashes as raw material in the production of a special cement, Yüksek Lisans, İ.SONER(Öğrenci), 2009

KÜLAH G., SELÇUK N., Investigation of combustion characteristics of indigenous lignite in a 150 kWt circulating fluidized bed combustor, Doktora, A.BATU(Öğrenci), 2008

KÜLAH G., SELÇUK N., Radiative-convective model for one-dimensional longwave clear sky atmosphere, Yüksek Lisans, G.AYDIN(Öğrenci), 2008

TUNCER İ. H., SELÇUK N., A non-iterative pressure based algorithm for the computation of reacting radiating flows, Doktora, A.BİLGE(Öğrenci), 2007

KÜLAH G., SELÇUK N., Mathematical modeling of fbcs co-fired with lignite and biomass, Yüksek Lisans, E.MEHMET(Öğrenci), 2007

SELÇUK N., Co-firing biomass with coal in bubbling fluidized bed combustors, Doktora, Z.GÖĞEBAKAN(Öğrenci), 2007

SELÇUK N., Akışkan yataklı yakıcıların matematiksel modellenmesi linyit ve biyokütlelerin beraber yakılması., Yüksek Lisans, E.Mehmet(Öğrenci), 2007

SELÇUK N., A nonintrusive diagnostics technique for flame soot based on near-infrared emission spectrometry, Doktora, İ.AYRANCI(Öğrenci), 2007

SELÇUK N., Simulation of circulating fluidized bed combustors, Doktora, Y.GÖĞEBAKAN(Öğrenci), 2006

SELÇUK N., The method of lines solution of discrete ordinates method for nongray media, Yüksek Lisans,

F.NİHAN(Öğrenci), 2006  
SELÇUK N., Gri olmayan ortamlar için belirli yönler yönteminin çizgiler metoduyla çözümü, Yüksek Lisans, F.Nihan(Öğrenci), 2006  
KÜLAH G., SELÇUK N., Mathematical modeling of fluidized bed combustors with radiation model, Yüksek Lisans, D.ECE(Öğrenci), 2006  
TOKYAY M., SELÇUK N., Utilization of fly ash from fluidized bed combustion of a Turkish lignite in production of blended cements, Yüksek Lisans, M.KÜRKÇÜ(Öğrenci), 2006  
SELÇUK N., Mathematical modeling of NOx emissions in bubbling fluidized bed combustors, Yüksek Lisans, O.AFACAN(Öğrenci), 2005  
SELÇUK N., Numerical simulation of radiating flows, Yüksek Lisans, E.KARAIŞMAİL(Öğrenci), 2005  
SELÇUK N., Numerical simulation of laminar reacting flows, Doktora, T.TARHAN(Öğrenci), 2004  
SELÇUK N., Kargaşasız reaksiyonlu akışların sayısal benzetimi, Doktora, T.Tarhan(Öğrenci), 2004  
SELÇUK N., Effect of recycling on the performance of bubbling fluidized bed combustors, Yüksek Lisans, H.HARMANDAR(Öğrenci), 2003  
SELÇUK N., Akışkan yataklı yakıcılarda kükürt tutunumunun modellenmesi, Yüksek Lisans, H.Altındağ(Öğrenci), 2003  
SELÇUK N., Mathematical modeling of sulfur retention in fluidized bed combustors, Yüksek Lisans, H.ALTINDAĞ(Öğrenci), 2003  
SELÇUK N., Numerical simulation of transient turbulent flow in a heated pipe, Yüksek Lisans, A.BİLGE(Öğrenci), 2002  
SELÇUK N., The method of lines solution of discrete ordinates method for radiative heat transfer in cylindrical enclosures., Yüksek Lisans, S.Karamehmetoğlu(Öğrenci), 2002  
SELÇUK N., The Method of lines solution of discrete ordinates method for radiative heat transfer in cylindrical enclosures, Yüksek Lisans, S.KARAMEHMETOĞLU(Öğrenci), 2002  
SELÇUK N., TUNCER İ. H., Parallelization of a transient Navier-Stokes code based on method of lines solution, Yüksek Lisans, C.ERŞAHİN(Öğrenci), 2001  
SELÇUK N., The Method of lines solution of discrete ordinates method for radiative heat transfer in 3-D rectangular enclosures containing scattering media, Yüksek Lisans, İ.AYRANCI(Öğrenci), 2001  
SELÇUK N., Modeling of radiative heat transfer in freeboard of a 0.3 Mw AFBC test rig using zone method of analysis, Yüksek Lisans, A.BATU(Öğrenci), 2001  
SELÇUK N., Char attrition in fluidized bed combustors, Yüksek Lisans, Y.GÖĞEBAKAN(Öğrenci), 2000  
SELÇUK N., Dynamic simulation of fluidized bed combustors, Doktora, E.DEĞİRMENÇİ(Öğrenci), 2000  
SELÇUK N., Numerical simulation of flow through inlet flues of heat recovery steam generators, Yüksek Lisans, T.TARHAN(Öğrenci), 1999  
SELÇUK N., Investigation of radiative heat transfer in freeboard of a 0.3 MW AFBC test rig, Yüksek Lisans, M.KOZAN(Öğrenci), 1999  
SELÇUK N., The Method of lines solution of discrete ordinates method for radiative heat transfer in enclosures, Yüksek Lisans, G.KIRBAŞ(Öğrenci), 1999  
SELÇUK N., Discrete transfer and discrete ordinates methods for radiative heat transfer in furnaces, Doktora, N.KAYAKOL(Öğrenci), 1998  
SELÇUK N., Discrete transfer and discrete ordinates methods for radiative heat transfer in furnaces, Doktora, N.Kayakol(Öğrenci), 1998  
SELÇUK N., The method of lines solution of time-dependent 2D navier-stokes equations for incompressible separated internal flows, Doktora, O.Oymak(Öğrenci), 1997  
SELÇUK N., Sulfation characteristics of limestone in 0.3 MW AFBC testrig, Yüksek Lisans, L.ORGAN(Öğrenci), 1997  
SELÇUK N., The Method of lines solution of time dependent 2D navier-stokes equations for incompressible separated internal flows, Doktora, O.OYMAK(Öğrenci), 1997  
SELÇUK N., Simulation of fluidized bed combustors, Yüksek Lisans, E.DEĞİRMENÇİ(Öğrenci), 1994  
SELÇUK N., Corrosion of N-80 type steel by CO2 / formation fluid mixtures, Yüksek Lisans, S.SEZA(Öğrenci), 1993  
SELÇUK N., Anaerobic digestion of molasses distillery waste, Yüksek Lisans, M.AHMED(Öğrenci), 1991  
SELÇUK N., Simulation of atmospheric fluidized bed combustors including in-situ desulfurization, Yüksek Lisans, O.OYMAK(Öğrenci), 1991  
SELÇUK N., ÖNAL İ., Mathematical modelign of the behavior of atmospheric fluidized bed combustors. (AFBC's), Yüksek

Lisans, R.Roostaazad(Öğrenci), 1990

SELÇUK N., Biogas production from agricultural wastes semi-continous digestion of sunflower head, Yüksek Lisans, H.POLAT(Öğrenci), 1990

SELÇUK N., Mathematical modeling of the behavior of atmospheric fluidized bed combustors (AFBC's), Yüksek Lisans, R.ROOSTAAZAD(Öğrenci), 1990

SELÇUK N., Biogas production from agricultural wastes semi-continuous digestion of sunflower head, Yüksek Lisans, H.Polat(Öğrenci), 1990

SELÇUK N., Experimental investigation of an atmospheric fluidized bed coal combustor, Yüksek Lisans, Ü.KIRMIZIGÜL(Öğrenci), 1989

SELÇUK N., Exact solutions for radiative heat transfer in box-shaped furnaces, Yüksek Lisans, İ.AKŞAHİN(Öğrenci), 1988

SELÇUK N., Biogas production from agricultural wastes-semi-continuous digestion of wheat straw, Yüksek Lisans, A.TOSUN(Öğrenci), 1987

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Special issue of the 12th Mediterranean Combustion Symposium**  
Mansour M. S., SELÇUK N., Beretta F., D'Anna A.  
International Journal of Spray and Combustion Dynamics, cilt.15, sa.4, ss.185, 2023 (SCI-Expanded)
- II. **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, cilt.333, 2023 (SCI-Expanded)
- III. **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, cilt.195, sa.14, ss.3232-3247, 2023 (SCI-Expanded)
- IV. **Preface for Special Issue on MCS12 Mediterranean Combustion Symposium**  
Beretta F., D'Anna A., Mansour M. S., SELÇUK N.  
Combustion Science and Technology, cilt.195, sa.14, ss.3231, 2023 (SCI-Expanded)
- V. **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, cilt.176, 2022 (SCI-Expanded)
- VI. **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, cilt.167, 2021 (SCI-Expanded)
- VII. **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, cilt.270, 2021 (SCI-Expanded)
- VIII. **Special Issue: Advances in Combustion Research**  
Mansour M. S., SELÇUK N., Beretta F., D'Anna A.  
Flow, Turbulence and Combustion, cilt.106, sa.4, ss.1017-1018, 2021 (SCI-Expanded)
- IX. **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, cilt.257, 2020 (SCI-Expanded)
- X. **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, cilt.176, 2020 (SCI-Expanded)

- XI. **Special issue: Eurotherm Seminar No. 110: Computational thermal radiation in participating media - VI**  
Coelho P. J., Lemonnier D., Lybaert P., SELÇUK N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.241, 2020 (SCI-Expanded)
- XII. **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)
- XIII. **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, cilt.136, ss.420-432, 2019 (SCI-Expanded)
- XIV. **Preface: Tenth Mediterranean Combustion Symposium**  
SELÇUK N., Beretta F., Mansour M. S., D'Anna A.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.191, sa.1, ss.1, 2019 (SCI-Expanded)
- XV. **Effect of kaolin addition on alkali capture capability during combustion of olive residue**  
Batir O., Selcuk N., Kulah G.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.191, ss.43-53, 2019 (SCI-Expanded)
- XVI. **Special Issue: Advances in Turbulent Combustion Preface**  
Mansour M. S., SELÇUK N., Beretta F., D'Anna A.  
FLOW TURBULENCE AND COMBUSTION, cilt.101, sa.4, ss.971, 2018 (SCI-Expanded)
- XVII. **Influence of gray particle assumption on the predictive accuracy of gas property approximations**  
Ates C., SELÇUK N., KÜLAH G.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.220, ss.67-83, 2018 (SCI-Expanded)
- XVIII. **Influence of fly ash composition on non-gray particle radiation in combustng systems**  
Ates C., SELÇUK N., KÜLAH G.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.215, ss.25-40, 2018 (SCI-Expanded)
- XIX. **Preface Tenth Mediterranean Combustion Symposium**  
SELÇUK N., Beretta F., Mansour M. S., D'Anna A.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.95, ss.1, 2018 (SCI-Expanded)
- XX. **Significance of particle concentration distribution on radiative heat transfer in circulating fluidized bed combustors**  
Ates C., SELÇUK N., KÜLAH G.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.117, ss.58-70, 2018 (SCI-Expanded)
- XXI. **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, cilt.128, ss.539-550, 2018 (SCI-Expanded)
- XXII. **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, cilt.73, sa.6, ss.385-407, 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, cilt.190, sa.8, ss.1377-1391, 2018 (SCI-Expanded)
- XXIV. **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, cilt.122, ss.266-280, 2017 (SCI-Expanded)
- XXV. **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, cilt.71, sa.5, ss.467-484, 2017 (SCI-Expanded)
- XXVI. **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, cilt.182, ss.264-276, 2016 (SCI-Expanded)
- XXVII. **Radiative Heat Transfer in the Dilute Zone of an Air-Fired Circulating Fluidized Bed Combustor and Its Oxy-Fired Retrofit**  
Ozen G., Aydin F., SELÇUK N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.188, ss.730-744, 2016 (SCI-Expanded)
- XXVIII. **Ninth Mediterranean Combustion Symposium PREFACE**  
SELÇUK N., Beretta F., Mansour M. S., D'Anna A.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.188, ss.481, 2016 (SCI-Expanded)
- XXIX. **SLW model for computational fluid dynamics modeling of combustion systems: Implementation and validation**  
Ozen G., SELÇUK N.  
NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS, cilt.70, sa.1, ss.47-55, 2016 (SCI-Expanded)
- XXX. **Eighth Mediterranean Combustion Symposium Preface**  
SELÇUK N., Beretta F., Mansour M. S., D'Anna A.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.56, ss.1, 2014 (SCI-Expanded)
- XXXI. **SENSITIVITY OF RADIATION MODELING TO PROPERTY ESTIMATION TECHNIQUES IN THE FREEBOARD OF LIGNITE- FIRED BUBBLING FLUIDIZED BED COMBUSTORS ( BFBCs)**  
Ozen G., SELÇUK N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.186, ss.684-697, 2014 (SCI-Expanded)
- XXXII. **EIGHTH MEDITERRANEAN COMBUSTION SYMPOSIUM**  
SELÇUK N., Beretta F., Mansour M. S., D'Anna A.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.186, ss.387-388, 2014 (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, cilt.186, ss.398-408, 2014 (SCI-Expanded)
- XXXIV. **Special issue based on the Eurotherm Seminar 95-Computational Thermal Radiation in Participating Media IV**  
Boulet P., Lacroix D., Lemonnier D., Lybaert P., MENGÜÇ M. P., SELÇUK N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.128, ss.1, 2013 (SCI-Expanded)
- XXXV. **Performance of DOM and IDA with different angular discretization methods in 3-D absorbing-emitting-scattering media**  
Ozen G., SELÇUK N.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, cilt.65, ss.104-110, 2013 (SCI-Expanded)
- XXXVI. **An application of Spectral line-based weighted sum of grey gases (SLW) model with geometric optics approximation for radiative heat transfer in 3-D participating media**  
DÖNER N., SELÇUK N.  
APPLIED THERMAL ENGINEERING, cilt.50, sa.1, ss.89-93, 2013 (SCI-Expanded)
- XXXVII. **Air and oxy-fuel combustion behaviour of petcoke/lignite blends**  
Yuzbasi N. S., SELÇUK N.  
FUEL, cilt.92, sa.1, ss.137-144, 2012 (SCI-Expanded)
- XXXVIII. **PYROLYSIS AND COMBUSTION BEHAVIOR OF TERNARY FUEL BLENDS IN AIR AND OXY-FUEL CONDITIONS BY USING TGA-FTIR**  
Yuzbasi N. S., SELÇUK N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.184, ss.1152-1163, 2012 (SCI-Expanded)
- XXXIX. **SEVENTH MEDITERRANEAN COMBUSTION SYMPOSIUM Preface**  
Beretta F., SELÇUK N., Mansour M. S., D'Anna A.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.184, ss.869-870, 2012 (SCI-Expanded)

- XL. **Simulation of circulating fluidized bed combustors firing indigenous lignite**  
SELÇUK N., Ozkan M.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, cilt.50, sa.6, ss.1109-1115, 2011 (SCI-Expanded)
- XLI. **Air and oxy-fuel combustion characteristics of biomass/lignite blends in TGA-FTIR**  
Yuzbasi N. S., SELÇUK N.  
FUEL PROCESSING TECHNOLOGY, cilt.92, sa.5, ss.1101-1108, 2011 (SCI-Expanded)
- XLII. **The Sixth International Symposium on Radiative Transfer Preface**  
Webb B. W., Lemonnier D., Menguec M. P., SELÇUK N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.112, sa.7, ss.1139-1140, 2011 (SCI-Expanded)
- XLIII. **Combustion behaviour of Turkish lignite in O-2/N-2 and O-2/CO2 mixtures by using TGA-FTIR**  
SELÇUK N., Yuzbasi N. S.  
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, cilt.90, sa.2, ss.133-139, 2011 (SCI-Expanded)
- XLIV. **Design assessment of a 150 kWt CFBC Test Unit**  
Batu A., SELÇUK N., KÜLAH G.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.34, sa.3, ss.275-281, 2010 (SCI-Expanded)
- XLV. **Sixth Mediterranean Combustion Symposium**  
SELÇUK N., Beretta F., Mansour M. S., D'Anna A.  
Experimental Thermal and Fluid Science, cilt.34, sa.3, ss.257, 2010 (SCI-Expanded)
- XLVI. **Mathematical Modeling of a Bubbling Fluidized Bed Combustor Cofired with Lignite and Biomass**  
KÜLAH G., Morali E. M., SELÇUK N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.182, ss.600-612, 2010 (SCI-Expanded)
- XLVII. **SIXTH MEDITERRANEAN COMBUSTION SYMPOSIUM PREFACE**  
Beretta F., SELÇUK N., Mansour M. S., d'Anna A.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.182, ss.331-332, 2010 (SCI-Expanded)
- XLVIII. **Special issue based on Eurotherm Seminar No. 83: Computational thermal radiation in participating media III**  
Coelho P. J., Lemonnier D., Lybaert P., Menguc M. P., SELÇUK N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.111, sa.2, ss.262-263, 2010 (SCI-Expanded)
- XLIX. **Trace elements partitioning during co-firing biomass with lignite in a pilot-scale fluidized bed combustor**  
Gogebakan Z., SELÇUK N.  
JOURNAL OF HAZARDOUS MATERIALS, cilt.162, ss.1129-1134, 2009 (SCI-Expanded)
- L. **A 3-D radiation model for non-grey gases**  
SELÇUK N., DÖNER N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.110, sa.3, ss.184-191, 2009 (SCI-Expanded)
- LI. **Investigation of ash deposition in a pilot-scale fluidized bed combustor co-firing biomass with lignite**  
Gogebakan Z., Gogebakan Y., SELÇUK N., Seliuk E.  
BIORESOURCING TECHNOLOGY, cilt.100, sa.2, ss.1033-1036, 2009 (SCI-Expanded)
- LII. **Fifth mediterranean combustion symposium - Preface**  
SELÇUK N., Beretta F., Mansour M. S.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.32, sa.7, ss.1323, 2008 (SCI-Expanded)
- LIII. **Cofiring lignite with hazelnut shell and cotton residue in a pilot-scale fluidized bed combustor**  
Gogebakan Z., SELÇUK N.  
ENERGY & FUELS, cilt.22, sa.3, ss.1620-1627, 2008 (SCI-Expanded)
- LIV. **A non-iterative pressure based scheme for the computation of reacting radiating flows**  
Uygur A. B., SELÇUK N., TUNCER İ. H.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, cilt.47, sa.3, ss.209-220, 2008 (SCI-Expanded)
- LV. **The fifth international symposium on radiative transfer**

Menguc M. P., SELÇUK N., Webb B. W., Lemonnier D.

JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.109, sa.2, ss.177-179, 2008 (SCI-Expanded)

- LVI. **A comprehensive fluidized bed combustion model coupled with a radiation model**  
Alagoz D. E., KÜLAH G., SELÇUK N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.180, sa.5, ss.910-926, 2008 (SCI-Expanded)
- LVII. **Preface - Fifth Mediterranean Combustion Symposium**  
Beretta F., SELÇUK N., Mansour M. S.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.180, sa.5, ss.729-730, 2008 (SCI-Expanded)
- LVIII. **Near-infrared emission spectrometry measurements for nonintrusive soot diagnostics in flames**  
Ayranci I., Vaillon R., SELÇUK N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.109, sa.2, ss.349-361, 2008 (SCI-Expanded)
- LIX. **Co-firing of olive residue with lignite in bubbling FBC**  
Gogebakan Z., Gogebakan Y., SELÇUK N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.180, sa.5, ss.854-868, 2008 (SCI-Expanded)
- LX. **Effect of particle polydispersity on particle concentration measurement by using laser Doppler anemometry**  
Ayranci I., Pinguet G., Escudie D., Selcuk N., Vaillon R., Andre F.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.31, sa.8, ss.839-847, 2007 (SCI-Expanded)
- LXI. **Special issue based on Eurotherm Seminar 78 - Computational thermal radiation in participating media II - Preface**  
Lemonnier D., Selcuk N., Lybaert P., Menguc M. P.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.104, sa.2, ss.197-198, 2007 (SCI-Expanded)
- LXII. **The method of lines solution of discrete ordinates method for non-grey media**  
Cayan F. N., Selcuk N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.104, sa.2, ss.228-237, 2007 (SCI-Expanded)
- LXIII. **Determination of soot temperature, volume fraction and refractive index from flame emission spectrometry**  
Ayranci I., Vaillon R., Selcuk N., Andre F., Escudie D.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.104, sa.2, ss.266-276, 2007 (SCI-Expanded)
- LXIV. **Performance of discrete dipole approximation for prediction of amplitude and phase of electromagnetic scattering by particles**  
Ayranci I., Vaillon R., Selcuk N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.103, sa.1, ss.83-101, 2007 (SCI-Expanded)
- LXV. **Modeling of NO<sub>x</sub> emissions from fluidized bed combustion of high volatile lignites**  
Afacan O., Gogebakan Y., Selcuk N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.179, ss.227-247, 2007 (SCI-Expanded)
- LXVI. **A comparative study of modeling of radiative heat transfer using mol solution of dom with gray gas, wide-band correlated-k, and spectral line-based weighted sum of gray gases models**  
Cayan F. N., Selcuk N.  
NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS, cilt.52, sa.3, ss.231-246, 2007 (SCI-Expanded)
- LXVII. **Amplitude and phase of light scattered by micro-scale aggregates of dielectric spheres: Comparison between theory and microwave analogy experiments**  
Sabouroux P., Stout B., Geffrin J. M., Eyraud C., Ayranci I., Vaillon R., Selcuk N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.103, sa.1, ss.156-167, 2007 (SCI-Expanded)

- LXVIII. **A novel cfd code based on method of lines for reacting flows: Verification on methane/air diffusion flame**  
Tarhan T, Selcuk N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.179, ss.39-60, 2007 (SCI-Expanded)
- LXIX. **Fourth Mediterranean Combustion Symposium**  
Beretta F., Selcuk N., Mansour M. S.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.179, ss.1-2, 2007 (SCI-Expanded)
- LXX. **Partitioning behavior of trace elements during pilot-scale fluidized bed combustion of high ash content lignite**  
Selcuk N., Gogebakan Y., Gogebakan Z.  
JOURNAL OF HAZARDOUS MATERIALS, cilt.137, sa.3, ss.1698-1703, 2006 (SCI-Expanded)
- LXXI. **Transient simulation of reacting radiating flows**  
Uygur A. B., Tarhan T., Selcuk N.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, cilt.45, sa.10, ss.969-976, 2006 (SCI-Expanded)
- LXXII. **Investigation of difference schemes on method of lines**  
Tarhan T., Selcuk N.  
PROGRESS IN COMPUTATIONAL FLUID DYNAMICS, cilt.6, sa.8, ss.447-458, 2006 (SCI-Expanded)
- LXXIII. **Mol solution for transient turbulent flow in a heated pipe**  
Uygur A., Tarhan T., Selcuk N.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, cilt.44, sa.8, ss.726-734, 2005 (SCI-Expanded)
- LXXIV. **Transient simulation of radiating flows**  
Selcuk N., Uygur A., Ayranci I., Tarhan T.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.93, ss.151-161, 2005 (SCI-Expanded)
- LXXV. **Comparison between performances of Monte Carlo method and method of lines solution of discrete ordinates method**  
Demirkaya G., Arinc F., Selcuk N., Ayranci I.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.93, ss.115-124, 2005 (SCI-Expanded)
- LXXVI. **Special issue based on selected papers from the fourth international symposium on radiative transfer**  
Menguc M., Selcuk N., Webb B., Lemonnier D.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.93, ss.1-3, 2005 (SCI-Expanded)
- LXXVII. **Sulfur capture for fluidized-bed combustion of high-sulfur content lignites**  
Altindag H., Gogebakan Y., Selcuk N.  
APPLIED ENERGY, cilt.79, sa.4, ss.403-424, 2004 (SCI-Expanded)
- LXXVIII. **Effect of recycle on fluidized-bed combustion and emission characteristics of high-sulfur lignite**  
Selcuk N., Gogebakan Y., Harmandar H., Altindag H.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.176, ss.959-975, 2004 (SCI-Expanded)
- LXXIX. **Assessment of a model with char attrition for a bubbling atmospheric fluidized-bed combustor**  
Gogebakan Y., Selcuk N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.176, ss.799-818, 2004 (SCI-Expanded)
- LXXX. **Third mediterranean combustion symposium - Preface**  
Beretta F., Selcuk N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.176, ss.643-644, 2004 (SCI-Expanded)
- LXXXI. **Preface - Special issue based on Eurotherm Seminar No. 73 - computational thermal radiation in participating media**  
Lybaert P., Selcuk N., Lemonnier D., Menguc M.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.84, sa.4, ss.369-370, 2004 (SCI-Expanded)
- LXXXII. **MOL solution of DOM for transient radiative transfer in 3-D scattering media**  
Ayranci I., Selcuk N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.84, sa.4, ss.409-422, 2004 (SCI-



- Expanded)
- LXXXIII. **The method of lines solution of discrete ordinates method for radiative heat transfer in cylindrical enclosures**  
Harmandar S., Selcuk N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.84, sa.4, ss.395-407, 2004 (SCI-Expanded)
- LXXXIV. **Parallelization of a transient method of lines Navier-Stokes code**  
Ersahin C., Tarhan T., Tuncer I., Selcuk N.  
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, cilt.18, sa.1, ss.81-92, 2004 (SCI-Expanded)
- LXXXV. **Modeling of a bubbling AFBC with volatiles release**  
Selcuk N., Degirmenci E., Gogebakan Y.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, cilt.125, sa.1, ss.72-81, 2003 (SCI-Expanded)
- LXXXVI. **The method of lines solution of the discrete ordinates method for radiative heat transfer in enclosures containing scattering media**  
Selcuk N., Ayranci I.  
NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS, cilt.43, sa.2, ss.179-201, 2003 (SCI-Expanded)
- LXXXVII. **Comparison of method of lines and finite difference solutions of 2-D Navier-Stokes equations for transient laminar pipe flow**  
Selcuk N., Tarhan T., Tanrikulu S.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, cilt.53, sa.7, ss.1615-1628, 2002 (SCI-Expanded)
- LXXXVIII. **Dynamic simulation of fluidized bed combustors and its validation against measurements**  
Selcuk N., Degirmenci E.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.167, ss.1-27, 2001 (SCI-Expanded)
- LXXXIX. **Method of lines for transient flow fields**  
Tarhan T., Selcuk N.  
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, cilt.15, sa.4, ss.309-328, 2001 (SCI-Expanded)
- XC. **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, cilt.37, sa.3, ss.379-392, 2000 (SCI-Expanded)
- XCI. **Performance of discrete ordinates method in a gas turbine combustor simulator**  
Kayakol N., Selcuk N., Campbell I., Gulder O.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.21, ss.134-141, 2000 (SCI-Expanded)
- XCII. **Mediterranean combustion symposium - Preface**  
Beretta F., Selcuk N.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.21, ss.1, 2000 (SCI-Expanded)
- XCIII. **Assessment of catalyst deactivation model for sulfur retention in fluidized bed combustors**  
Degirmenci E., Gogebakan Y., Selcuk N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.153, ss.95-111, 2000 (SCI-Expanded)
- XCIV. **Investigation of radiative heat transfer in freeboard of a 0.3 MWt AFBC test rig**  
Kozan M., Selcuk N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.153, ss.113-126, 2000 (SCI-Expanded)
- XCV. **Mediterranean Combustion Symposium - 20-25 June 1999, Antalya, Turkey - Preface**  
Baretta F., Selcuk N.  
COMBUSTION SCIENCE AND TECHNOLOGY, cilt.153, ss.1-2, 2000 (SCI-Expanded)
- XCVI. **Transient simulation of internal separated flows using an intelligent higher-order spatial discretization scheme**  
Oymak O., Selcuk N.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.24, sa.8, ss.759-769, 1997 (SCI-Expanded)

- XCVII. Evaluation of an improved code for the performance of AFBCs**  
Selcuk N., Degirmenci E., Oymak O.  
JOURNAL OF THE INSTITUTE OF ENERGY, cilt.70, sa.482, ss.31-50, 1997 (SCI-Expanded)
- XCVIII. Evaluation of discrete ordinates method for radiative transfer in rectangular furnaces**  
Selcuk N., Kayakol N.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.40, sa.2, ss.213-222, 1997 (SCI-Expanded)
- XCIX. Method-of-lines solution of time-dependent two-dimensional Navier-Stokes equations**  
Oymak O., Selcuk N.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.23, sa.5, ss.455-466, 1996 (SCI-Expanded)
- C. Basic requirement for modelling fluidized beds: Fast computation of particle size distributions (PSDs)**  
Selcuk N., Oymak O., Degirmenci E.  
POWDER TECHNOLOGY, cilt.87, sa.3, ss.269-271, 1996 (SCI-Expanded)
- CI. THE SIMULATION OF ATMOSPHERIC FLUIDIZED-BED COMBUSTORS WITH IN-SITU DESULFURIZATION**  
SELÇUK N., OYMAK O., ONAL I.  
JOURNAL OF THE INSTITUTE OF ENERGY, cilt.66, sa.469, ss.159-168, 1993 (SCI-Expanded)
- CII. BIOGAS PRODUCTION FROM AGRICULTURAL WASTES - SEMICONTINUOUS ANAEROBIC-DIGESTION OF SUNFLOWER HEADS**  
POLAT H., SELÇUK N., SOYUPAK S.  
ENERGY SOURCES, cilt.15, sa.1, ss.67-75, 1993 (SCI-Expanded)
- CIII. EFFECT OF PRETREATMENTS ON THE SEMICONTINUOUS ANAEROBIC-DIGESTION OF SUNFLOWER HEADS**  
POLAT H., SELÇUK N., SOYUPAK S.  
ENERGY SOURCES, cilt.14, sa.4, ss.391-403, 1992 (SCI-Expanded)
- CIV. CHARACTERISTICS OF A FLUIDIZED-BED COMBUSTOR BURNING LOW-QUALITY LIGNITE**  
SELÇUK N., KIRMIZIGUL U.  
JOURNAL OF THE INSTITUTE OF ENERGY, cilt.64, sa.460, ss.151-156, 1991 (SCI-Expanded)
- CV. EVALUATION OF FLUX MODELS FOR RADIATIVE-TRANSFER IN RECTANGULAR FURNACES**  
SELÇUK N.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.31, sa.7, ss.1477-1482, 1988 (SCI-Expanded)
- CVI. EXACT NUMERICAL-SOLUTIONS FOR RADIATIVE HEAT-TRANSFER IN CYLINDRICAL FURNACES**  
SELÇUK N., TAHIROGLU Z.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, cilt.26, sa.5, ss.1201-1212, 1988 (SCI-Expanded)
- CVII. THE EFFECT OF CLEANING MEDIUM VELOCITY AND TEMPERATURE ON THE CORROSION OF STEEL**  
UNSAI A., SELÇUK N., DORUK M.  
MATERIALS PERFORMANCE, cilt.27, sa.2, ss.26-30, 1988 (SCI-Expanded)

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. 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, İsveç, 8 - 11 Mayıs 2022
- II. THE METHOD OF LINES SOLUTION OF DISCRETE ORDINATES METHOD FOR TRANSIENT SIMULATION OF RADIATIVE HEAT TRANSFER**  
SELÇUK N.  
6th International Symposium on Radiative Transfer (RADIATIVE TRANSFER), Antalya, Türkiye, 13 - 19 Haziran 2010
- III. Co-firing of steam coal with high sulfur content lignite in a bubbling fluidized bed combustor**

Selcuk N., Gogebakan Y., Altindag H.

18th International Conference on Fluidized Bed Combustion, Toronto, Kanada, 22 - 25 Mayıs 2005, ss.353-358

**IV. Partitioning of trace elements during fluidized bed combustion of high ash content lignite**

Selcuk N., Gogebakan Y., Gogebakan Z.

18th International Conference on Fluidized Bed Combustion, Toronto, Kanada, 22 - 25 Mayıs 2005, ss.359-366

**V. Effect of recycle on radiative heat transfer in the freeboard of a fluidized bed combustor**

Selcuk N., Ayranci I., Gogebakan Y.

18th International Conference on Fluidized Bed Combustion, Toronto, Kanada, 22 - 25 Mayıs 2005, ss.367-372

**VI. An improvement in the prediction of source terms in discrete transfer method**

Selcuk N., Kayakol N.

11th International Heat Transfer Conference, Kyeongju, Güney Kore, 23 - 28 Ağustos 1998, ss.331-336

**VII. Assessment of discrete ordinates method for radiative transfer in cylindrical furnaces**

Selcuk N., Kayakol N.

2nd International Symposium on Radiation Transfer, KUSADASI, Türkiye, 01 Temmuz 1997, ss.221-236

**VIII. Accuracy of Monte Carlo method re-examined on a box-shaped furnace problem**

Erturk H., Arinc F., Selcuk N.

2nd International Symposium on Radiation Transfer, KUSADASI, Türkiye, 01 Temmuz 1997, ss.85-95

## **Metrikler**

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H-İndeks (Scopus): 18

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