

## Prof. NEVİN SELÇUK

### Personal Information

Email: selcuk@metu.edu.tr

### Advising Theses

- KÜLAH G., SELÇUK N., Nongray gas and nongray particle effects in modeling fluidized bed combustors, Doctorate, C.ATEŞ(Student), 2018
- Külah G., Selçuk N., Mathematical modeling of a bubbling fluidized bed combustor co-fired with cotton residue and lignite, Post Graduate, M.SONER(Student), 2018
- KÜLAH G., SELÇUK N., Modeling of radiative heat transfer in strongly forward scattering media of bubbling fluidized bed combustor with and without recycle, Post Graduate, Ö.ŞEN(Student), 2017
- SELÇUK N., Thermal radiation from solid propellant rocket motor plume, Doctorate, G.ÖZEN(Student), 2015
- SELÇUK N., Pyrolysis and combustion behaviour of various fuels in oxygen-enriched air and CO<sub>2</sub> atmospheres, Post Graduate, N.SENA(Student), 2011
- KÜLAH G., SELÇUK N., Radiative-convective model for one-dimensional cloudy sky atmosphere, Post Graduate, M.YUSUF(Student), 2011
- SELÇUK N., Simulation of circulating fluidized bed combustors firing indigenous lignite, Post Graduate, M.ÖZKAN(Student), 2010
- SELÇUK N., Utilization of fluidized bed combustion ashes as raw material in the production of a special cement, Post Graduate, İ.SONER(Student), 2009
- KÜLAH G., SELÇUK N., Investigation of combustion characteristics of indigenous lignite in a 150 kWt circulating fluidized bed combustor, Doctorate, A.BATU(Student), 2008
- KÜLAH G., SELÇUK N., Radiative-convective model for one-dimensional longwave clear sky atmosphere, Post Graduate, G.AYDIN(Student), 2008
- SELÇUK N., A nonintrusive diagnostics technique for flame soot based on near-infrared emission spectrometry, Doctorate, İ.AYRANCI(Student), 2007
- SELÇUK N., Co-firing biomass with coal in bubbling fluidized bed combustors, Doctorate, Z.GÖĞEBAKAN(Student), 2007
- TUNCER İ. H. , SELÇUK N., A non-iterative pressure based algorithm for the computation of reacting radiating flows, Doctorate, A.BİLGE(Student), 2007
- KÜLAH G., SELÇUK N., Mathematical modeling of fbcs co-fired with lignite and biomass, Post Graduate, E.MEHMET(Student), 2007
- TOKYAY M., SELÇUK N., Utilization of fly ash from fluidized bed combustion of a Turkish lignite in production of blended cements, Post Graduate, M.KÜRKCÜ(Student), 2006
- SELÇUK N., Simulation of circulating fluidized bed combustors, Doctorate, Y.GÖĞEBAKAN(Student), 2006
- KÜLAH G., SELÇUK N., Mathematical modeling of fluidized bed combustors with radiation model, Post Graduate, D.ECE(Student), 2006
- SELÇUK N., The method of lines solution of discrete ordinates method for nongray media, Post Graduate, F.NİHAN(Student), 2006
- SELÇUK N., Numerical simulation of radiating flows, Post Graduate, E.KARAIŞMAIL(Student), 2005
- SELÇUK N., Mathematical modeling of NO<sub>x</sub> emissions in bubbling fluidized bed combustors, Post Graduate, O.AFACAN(Student), 2005
- SELÇUK N., Numerical simulation of laminar reacting flows, Doctorate, T.TARHAN(Student), 2004
- SELÇUK N., Mathematical modeling of sulfur retention in fluidized bed combustors, Post Graduate, H.ALTINDAĞ(Student), 2003
- SELÇUK N., Effect of recycling on the performance of bubbling fluidized bed combustors, Post Graduate,

H.HARMANDAR(Student), 2003

SELÇUK N., Numerical simulation of transient turbulent flow in a heated pipe, Post Graduate, A.BİLGE(Student), 2002

SELÇUK N., The Method of lines solution of discrete ordinates method for radiative heat transfer in cylindrical enclosures, Post Graduate, S.KARAMEHMETOĞLU(Student), 2002

TUNCER İ. H. , SELÇUK N., Parallelization of a transient Navier-Stokes code based on method of lines solution, Post Graduate, C.ERŞAHİN(Student), 2001

SELÇUK N., The Method of lines solution of discrete ordinates method for radiative heat transfer in 3-D rectangular enclosures containing scattering media, Post Graduate, İ.AYRANCI(Student), 2001

SELÇUK N., Modeling of radiative heat transfer in freeboard of a 0.3 Mw AFBC test rig using zone method of analysis, Post Graduate, A.BATU(Student), 2001

SELÇUK N., Dynamic simulation of fluidized bed combustors, Doctorate, E.DEĞİRMENCİ(Student), 2000

SELÇUK N., Char attrition in fluidized bed combustors, Post Graduate, Y.GÖĞEBAKAN(Student), 2000

SELÇUK N., Numerical simulation of flow through inlet flues of heat recovery steam generators, Post Graduate, T.TARHAN(Student), 1999

SELÇUK N., Investigation of radiative heat transfer in freeboard of a 0.3 MW AFBC test rig, Post Graduate, M.KOZAN(Student), 1999

SELÇUK N., The Method of lines solution of discrete ordinates method for radiative heat transfer in enclosures, Post Graduate, G.KIRBAŞ(Student), 1999

SELÇUK N., Discrete transfer and discrete ordinates methods for radiative heat transfer in furnaces, Doctorate, N.KAYAKOL(Student), 1998

SELÇUK N., Sulfation characteristics of limestone in 0.3 MW AFBC test rig, Post Graduate, L.ORGAN(Student), 1997

SELÇUK N., The Method of lines solution of time dependent 2D Navier-Stokes equations for incompressible separated internal flows, Doctorate, O.OYMAK(Student), 1997

SELÇUK N., Simulation of fluidized bed combustors, Post Graduate, E.DEĞİRMENCİ(Student), 1994

SELÇUK N., Corrosion of N-80 type steel by CO<sub>2</sub> / formation fluid mixtures, Post Graduate, S.SEZA(Student), 1993

SELÇUK N., Anaerobic digestion of molasses distillery waste, Post Graduate, M.AHMED(Student), 1991

SELÇUK N., Simulation of atmospheric fluidized bed combustors including in-situ desulfurization, Post Graduate, O.OYMAK(Student), 1991

SELÇUK N., Mathematical modeling of the behavior of atmospheric fluidized bed combustors (AFBC's), Post Graduate, R.ROOSTAAZAD(Student), 1990

SELÇUK N., Biogas production from agricultural wastes semi-continuous digestion of sunflower head, Post Graduate, H.POLAT(Student), 1990

SELÇUK N., Experimental investigation of an atmospheric fluidized bed coal combustor, Post Graduate, Ü.KIRMIZIGÜL(Student), 1989

SELÇUK N., Exact solutions for radiative heat transfer in box-shaped furnaces, Post Graduate, İ.AKŞAHİN(Student), 1988

SELÇUK N., Biogas production from agricultural wastes-semi-continuous digestion of wheat straw, Post Graduate, A.TOSUN(Student), 1987

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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 (Journal Indexed in SCI)
- **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, vol.241, 2020 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)  
**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 (Journal Indexed in SCI)  
**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 (Journal Indexed in SCI)  
**Preface: Tenth Mediterranean Combustion Symposium**  
SELÇUK N., Beretta F., Mansour M. S. , D'Anna A.
- COMBUSTION SCIENCE AND TECHNOLOGY, vol.191, pp.1, 2019 (Journal Indexed in SCI)  
**Special Issue: Advances in Turbulent Combustion Preface**  
Mansour M. S. , SELÇUK N., Beretta F., D'Anna A.
- FLOW TURBULENCE AND COMBUSTION, vol.101, pp.971, 2018 (Journal Indexed in SCI)  
**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, vol.220, pp.67-83, 2018 (Journal Indexed in SCI)  
**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, vol.215, pp.25-40, 2018 (Journal Indexed in SCI)  
**Preface Tenth Mediterranean Combustion Symposium**  
SELÇUK N., Beretta F., Mansour M. S. , D'Anna A.
- EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.95, pp.1, 2018 (Journal Indexed in SCI)  
**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, vol.117, pp.58-70, 2018 (Journal Indexed in SCI)  
**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 (Journal Indexed in SCI)  
**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, pp.385-407, 2018 (Journal Indexed in SCI)  
**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, pp.1377-1391, 2018 (Journal Indexed in SCI)  
**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 (Journal Indexed in SCI)  
**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, pp.467-484, 2017 (Journal Indexed in SCI)  
**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 (Journal Indexed in SCI)

● **Ninth Mediterranean Combustion Symposium PREFACE**

SELÇUK N., Beretta F., Mansour M. S., D'Anna A.

● COMBUSTION SCIENCE AND TECHNOLOGY, vol.188, pp.481, 2016 (Journal Indexed in SCI)

● **SLW model for computational fluid dynamics modeling of combustion systems: Implementation and validation**

Ozen G., SELÇUK N.

● NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS, vol.70, pp.47-55, 2016 (Journal Indexed in SCI)

● **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, vol.188, pp.730-744, 2016 (Journal Indexed in SCI)

● **Eighth Mediterranean Combustion Symposium Preface**

SELÇUK N., Beretta F., Mansour M. S., D'Anna A.

● EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.56, pp.1, 2014 (Journal Indexed in SCI)

● **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 (Journal Indexed in SCI)

● **EIGHTH MEDITERRANEAN COMBUSTION SYMPOSIUM**

SELÇUK N., Beretta F., Mansour M. S., D'Anna A.

● COMBUSTION SCIENCE AND TECHNOLOGY, vol.186, pp.387-388, 2014 (Journal Indexed in SCI)

● **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, vol.186, pp.684-697, 2014 (Journal Indexed in SCI)

● **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, vol.128, pp.1, 2013 (Journal Indexed in SCI)

● **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, vol.65, pp.104-110, 2013 (Journal Indexed in SCI)

● **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, vol.50, pp.89-93, 2013 (Journal Indexed in SCI)

● **Air and oxy-fuel combustion behaviour of petcoke/lignite blends**

Yuzbasi N. S., SELÇUK N.

● FUEL, vol.92, pp.137-144, 2012 (Journal Indexed in SCI)

● **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, vol.184, pp.1152-1163, 2012 (Journal Indexed in SCI)

● **SEVENTH MEDITERRANEAN COMBUSTION SYMPOSIUM Preface**

Beretta F., SELÇUK N., Mansour M. S., D'Anna A.

● COMBUSTION SCIENCE AND TECHNOLOGY, vol.184, pp.869-870, 2012 (Journal Indexed in SCI)

● **Simulation of circulating fluidized bed combustors firing indigenous lignite**

SELÇUK N., Ozkan M.

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.50, pp.1109-1115, 2011 (Journal Indexed in SCI)

- **Air and oxy-fuel combustion characteristics of biomass/lignite blends in TGA-FTIR**  
Yuzbasi N. S. , SELÇUK N.  
FUEL PROCESSING TECHNOLOGY, vol.92, pp.1101-1108, 2011 (Journal Indexed in SCI)
- **The Sixth International Symposium on Radiative Transfer Preface**  
Webb B. W. , Lemonnier D., Menguec M. P. , SELÇUK N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.112, pp.1139-1140, 2011 (Journal Indexed in SCI)
- **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, vol.90, pp.133-139, 2011 (Journal Indexed in SCI)
- **Design assessment of a 150 kWt CFBC Test Unit**  
Batu A., SELÇUK N., KÜLAH G.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.34, pp.275-281, 2010 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **SIXTH MEDITERRANEAN COMBUSTION SYMPOSIUM PREFACE**  
Beretta F., SELÇUK N., Mansour M. S. , d'Anna A.  
COMBUSTION SCIENCE AND TECHNOLOGY, vol.182, pp.331-332, 2010 (Journal Indexed in SCI)
- **Special issue based on Eurotherm Seminar No. 83: Computational thermal radiation in participating media III**  
Coelho P. J. , Lemonnier D., Lybaert P., Menguec M. P. , SELÇUK N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.111, pp.262-263, 2010 (Journal Indexed in SCI)
- **Trace elements partitioning during co-firing biomass with lignite in a pilot-scale fluidized bed combustor**  
Gogebakan Z., SELÇUK N.  
JOURNAL OF HAZARDOUS MATERIALS, vol.162, pp.1129-1134, 2009 (Journal Indexed in SCI)
- **A 3-D radiation model for non-grey gases**  
SELÇUK N., DÖNER N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.110, pp.184-191, 2009 (Journal Indexed in SCI)
- **Investigation of ash deposition in a pilot-scale fluidized bed combustor co-firing biomass with lignite**  
Gogebakan Z., Gogebakan Y., SELÇUK N., Seliuk E.  
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- **Fifth mediterranean combustion symposium - Preface**  
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- **Cofiring lignite with hazelnut shell and cotton residue in a pilot-scale fluidized bed combustor**  
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- **A non-iterative pressure based scheme for the computation of reacting radiating flows**  
Uygur A. B. , SELÇUK N., TUNCER İ. H.  
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- **The fifth international symposium on radiative transfer**  
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- **Co-firing of olive residue with lignite in bubbling FBC**  
Gogebakan Z., Gogebakan Y., SELÇUK N.  
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● **A comprehensive fluidized bed combustion model coupled with a radiation model**

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● **Preface - Fifth Mediterranean Combustion Symposium**

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● **Near-infrared emission spectrometry measurements for nonintrusive soot diagnostics in flames**

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● **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, vol.31, pp.839-847, 2007 (Journal Indexed in SCI)

● **Determination of soot temperature, volume fraction and refractive index from flame emission spectrometry**

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● **The method of lines solution of discrete ordinates method for non-grey media**

Cayan F. N. , Selcuk N.

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● **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, vol.104, pp.197-198, 2007 (Journal Indexed in SCI)

● **A novel cfd code based on method of lines for reacting flows: Verification on methane/air diffusion flame**

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● **Fourth Mediterranean Combustion Symposium**

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● **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**

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● **Amplitude and phase of light scattered by micro-scale aggregates of dielectric spheres: Comparison between theory and microwave analogy experiments**

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● **Modeling of NOx emissions from fluidized bed combustion of high volatile lignites**

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● **Performance of discrete dipole approximation for prediction of amplitude and phase of electromagnetic scattering by particles**

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**Third mediterranean combustion symposium - Preface**

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**Assessment of a model with char attrition for a bubbling atmospheric fluidized-bed combustor**

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● **Modeling of a bubbling AFBC with volatiles release**

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● **Comparison of method of lines and finite difference solutions of 2-D Navier-Stokes equations for transient laminar pipe flow**

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