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Eğitim Bilgileri

Doktora, The University of Texas at Austin, Mechanical Engineering, Amerika Birleşik Devletleri 1996 - 2000
Yüksek Lisans, The University of Texas at Austin, Mechanical Engineering, Amerika Birleşik Devletleri 1994 - 1996
Lisans, Virginia Polytechnic Institute and State University, Mechanical Engineering, Amerika Birleşik Devletleri 1987 - 1992

Yaptığı Tezler

Doktora, An investigation of calcium carbonate scaling rates based on experiments and modeling, The University Of Texas At Austin, Mechanical Engineering, 2000
Yüksek Lisans, Software to predict scaling problems in solar hot water systems, The University Of Texas At Austin, Mechanical Engineering, 1996

Araştırma Alanları

Makina Mühendisliği, Enerji, Güneş Enerjisi, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2015 - Devam Ediyor
Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2014 - 2015
Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2011 - 2012
Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2003 - 2010
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II. **Coupling PCM wallboard utilization with night Ventilation: Energy efficiency and overheating risk in office buildings under climate change impact**
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III. **Geometric design of micro scale volumetric receiver using system-level inputs: An application of surrogate-based approach**
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IV. **Off-design performance of micro-scale solar Brayton cycle**
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VI. **Modeling heat exchangers with an open source DEM-based code for granular flows**
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VIII. **Radiative heat transfer in the discrete element method using distance based approximations**
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IX. **Solar-thermal driven drying technologies for large-scale industrial applications: State of the art, gaps, and opportunities**
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X. **A Monte Carlo method to solve for radiative effective thermal conductivity for particle beds of various solid fractions and emissivities**
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XI. **Modeling, transient simulations and parametric studies of parabolic trough collectors with thermal energy storage**
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XIV. **Technoeconomic and exergy analysis of a solar geothermal hybrid electric power plant using a novel combined cycle**
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XVII. **A study to incorporate renewable energy technologies into the power portfolio of Karachi, Pakistan**
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XXI. **MEASUREMENT OF SOLAR RADIATION IN ANKARA, TURKEY**
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XXII. **Solar repowering of Soma-A thermal power plant**
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XXVIII. **International Summer Engineering Program on fuel cells for undergraduate engineering students**
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Kitap & Kitap Bölümleri

I. **Technical Study of a Hybrid Solar-Geothermal Power Plant and its Application to a Thermal Design Course**
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I. **_The Investigation of Mechanical and Thermal Properties of Sintered Bauxite and Sand Particles as Heat Transfer and Storage Media**
Uykun Z., TARI İ., BAKER D. K.
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II. **A Simulation Tool for Renewable Energy Supported Buildings**
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III. **DESIGN METHODOLOGY OF A CONCENTRATING SOLAR VOLUMETRIC RECEIVER**
Akba T., BAKER D. K., Mengüç M. P.
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IV. **Water Sludge Drying: Modelling of a Solar Thermal Plant for a Solar Vacuum Dryer**
Bartali R., BAYER Ö., Pınarlı D., Erdoğan S., Bolognese M., BAKER D. K., Pratticò L., Crema L.
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V. **Hybridization of a geothermal power plant with biomass driven sCO2 cycle**
Mutlu B., BAKER D. K., KAZANÇ ÖZERİNÇ F.
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VI. **Development of View Factor Correlations for Modeling Thermal Radiation in Solid Particle Solar Receivers Using CFD-DEM**
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VII. **Concentrating Solar Thermal: Global Trends and Opportunities in Turkey**
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VIII. **NUMERICAL COMPARISON AND SIZING OF SENSIBLE AND LATENT THERMAL ENERGY STORAGE FOR COMPRESSED AIR ENERGY STORAGE SYSTEMS**
Kaya M., TARI İ., BAKER D. K.
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X. **Proposal of a Novel Gravity-Fed, Particle-Filled Solar Receiver**
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XIII. **Experimental analysis of energy storage device using phase change material integrated with a milk storage system**
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XIX. **Adsorbent Refrigerant Comparison for a Solar Powered Adsorption Cooling System using Seasonal Simulations**
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XXIII. **ThermoNet: Part of an integrated website-textbook system**
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Metrikler

Yayın: 65
Atıf (WoS): 617
Atıf (Scopus): 701
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H-İndeks (Scopus): 15