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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: H-2021-2015

ScopusID: 16041579400

Yoksis Araştırmacı ID: 216431

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

Yrd. Doç. Dr., Humboldt State University, Natural Sciences, Environmental Systems Engineering, 2000 - 2003

Yönetilen Tezler

BAKER D. K., Investigation of Nanostructured Surfaces for Thermophotovoltaic Applications, Yüksek Lisans, E.ENİS(Öğrenci), 2021

BAKER D. K., Investigation of mechanical and thermal properties of sintered bauxite and sand particles as heat transfer and storage media, Yüksek Lisans, Z.UYKUN(Öğrenci), 2021

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BAKER D. K., GÜVENÇ YAZICIOĞLU A., Modelling, transient simulations and parametric studies of parabolic trough collectors with thermal energy storage, Yüksek Lisans, T.AKBA(Öğrenci), 2014

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Opportunities and challenges of geothermal energy in Turkey**
Korucan A., DERİN GÜRE P., Celebi B., BAKER D. K., Vander Velde M.
Energy for Sustainable Development, cilt.79, 2024 (SCI-Expanded)
- II. **Coupling PCM wallboard utilization with night Ventilation: Energy efficiency and overheating risk in office buildings under climate change impact**
Tamer T., Gürsel Dino İ., Baker D. K., Meral Akgül Ç.
ENERGY AND BUILDINGS, cilt.298, 2023 (SCI-Expanded)
- III. **Geometric design of micro scale volumetric receiver using system-level inputs: An application of surrogate-based approach**
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- Solar Energy, cilt.262, 2023 (SCI-Expanded)
- IV. **Off-design performance of micro-scale solar Brayton cycle**
Akba T., BAKER D. K., Mengüç M. P.
Energy Conversion and Management, cilt.289, 2023 (SCI-Expanded)
- V. **Gradient-based optimization of micro-scale pressurized volumetric receiver geometry and flow rate**
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Renewable Energy, cilt.203, ss.741-752, 2023 (SCI-Expanded)
- VI. **Modeling heat exchangers with an open source DEM-based code for granular flows**
Johnson E. F., TARI İ., BAKER D. K.
SOLAR ENERGY, cilt.228, ss.374-386, 2021 (SCI-Expanded)
- VII. **Development and analysis of the novel hybridization of a single-flash geothermal power plant with biomass driven sco₂-steam rankine combined cycle**
Mutlu B., BAKER D. K., KAZANÇ ÖZERİNÇ F.
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- VIII. **Radiative heat transfer in the discrete element method using distance based approximations**
Johnson E. F., TARI İ., BAKER D. K.
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- IX. **Solar-thermal driven drying technologies for large-scale industrial applications: State of the art, gaps, and opportunities**
Kamfa I., Fluch J., Bartali R., Baker D.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.44, sa.13, ss.9864-9888, 2020 (SCI-Expanded)
- 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**
Akba T., Baker D., GÜVENÇ YAZICIOĞLU A.
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- XII. **An investigation of optimum PV and wind energy system capacities for alternate short and long-term energy storage sizing methodologies**
Al-Ghussain L., Taylan O., BAKER D. K.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.43, sa.1, ss.204-218, 2019 (SCI-Expanded)
- XIII. **Sizing of Photovoltaic-Wind-Battery Hybrid System for a Mediterranean Island Community Based on Estimated and Measured Meteorological Data**
Sadati S. M. S., Jahani E., Taylan O., BAKER D. K.
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- XIV. **Technoeconomic and exergy analysis of a solar geothermal hybrid electric power plant using a novel combined cycle**
Bonyadi N., Johnson E., BAKER D. K.
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- XV. **Numerical Analysis of Phase Change Material Characteristics Used in a Thermal Energy Storage Device**
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HEAT TRANSFER ENGINEERING, cilt.39, sa.3, ss.268-276, 2018 (SCI-Expanded)
- XVI. **Solar energy potentials in strategically located cities in Nigeria: Review, resource assessment and PV system design**
Okoye C. O., Taylan O., Baker D. K.
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- XVII. **A study to incorporate renewable energy technologies into the power portfolio of Karachi, Pakistan**
Ali S. M. H., Zuberi M. J. S., Tariq M. A., BAKER D. K., Mohiuddin A.

- RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.47, ss.14-22, 2015 (SCI-Expanded)
- XVIII. **Energetic and economic performance analyses of photovoltaic, parabolic trough collector and wind energy systems for Multan, Pakistan**
Sadati S. M. S., Qureshi F. U., BAKER D. K.
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- XIX. **Modeling and simulations of a micro solar power system**
Pehlivanurk C., Ozkan O., BAKER D. K.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.38, sa.9, ss.1129-1144, 2014 (SCI-Expanded)
- XX. **Two dimensional transient coupled analysis of a finned tube adsorbent bed for a thermal wave cycle**
ÇAĞLAR A., Yamali C., BAKER D. K.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, cilt.73, ss.58-68, 2013 (SCI-Expanded)
- XXI. **MEASUREMENT OF SOLAR RADIATION IN ANKARA, TURKEY**
Caglar A., Yamali C., BAKER D. K., KAFTANOĞLU B.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, cilt.33, sa.2, ss.135-142, 2013 (SCI-Expanded)
- XXII. **Solar repowering of Soma-A thermal power plant**
YILMAZOĞLU M. Z., DURMAZ A., BAKER D. K.
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- XXIII. **A two-energy equation model for dynamic heat and mass transfer in an adsorbent bed using silica gel/water pair**
Solmus I., Rees D. A. S., Yamali C., Baker D.
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- XXIV. **COP trends for ideal thermal wave adsorption cooling cycles with enhancements**
Taylan O., Baker D. K., Kaftanoğlu B.
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- XXV. **Numerical investigation of coupled heat and mass transfer inside the adsorbent bed of an adsorption cooling unit**
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- XXVI. **Experimental investigation of a natural zeolite-water adsorption cooling unit**
Solmus I., KAFTANOĞLU B., Yamali C., Baker D.
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- XXVII. **MODELING OF BIPOLAR PLATES FOR PROTON EXCHANGE MEMBRANE FUEL CELLS**
Ekiz A., Camci T., Turkmen I., SANKIR M., USLU S., BAKER D. K., Agar E.
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- XXVIII. **International Summer Engineering Program on fuel cells for undergraduate engineering students**
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- XXIX. **Adsorption properties of a natural zeolite-water pair for use in adsorption cooling cycles**
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- XXX. **Thermodynamic limits to thermal regeneration in adsorption cooling cycles**
BAKER D. K.
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- XXXI. **Predicted impact of collector and zeolite choice on the thermodynamic and economic performance of a solar-powered adsorption cooling system**
Baker D. K., Kaftanoglu B.

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XXXII. Identifying and reducing scaling problems in solar hot water systems

Baker D. K., Vliet G.

JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, cilt.125, sa.1, ss.61-66, 2003 (SCI-Expanded)

XXXIII. Designing solar hot water systems for scaling environments

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Diğer Dergilerde Yayınlanan Makaleler

I. Normalized Thermodynamic Model for Intermittent Energy Systems and Application to Solar-Powered Adsorption Cooling Systems

Taylan O., Baker D. K., Kaftanoglu B.

INTERNATIONAL JOURNAL OF THERMODYNAMICS, cilt.14, sa.3, ss.107-115, 2011 (ESCI)

Kitap & Kitap Bölümleri

I. Technical Study of a Hybrid Solar-Geothermal Power Plant and its Application to a Thermal Design Course

BAKER D. K., Özalevli C., Sömek K.

Progress in Clean Energy Volume 2 Novel Systems and Applications, Dincer, I., Colpan, C.O., Kizilkan, O., Ezan, M.A., Editör, Springer, Cham, ss.887-910, 2015

II. Modeling and Transient Simulations of 30 MW Solar Thermal Electric Power Plants in the Northeast Mediterranean Region

BİLYAZ S., Singh R., KARSHENASS A., BAKER D. K.

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III. Technical Analysis of Hybrid Desiccant Cooling in a Mediterranean Climate

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IV. Thermodynamics An Integrated Learning System

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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.

27th International Conference on Concentrating Solar Power and Chemical Energy Systems: Solar Power and Chemical Energy Systems, SolarPACES 2021, Virtual, Online, 27 Eylül - 01 Ekim 2021, cilt.2815

II. A Simulation Tool for Renewable Energy Supported Buildings

Kuru M., Gökçül F., Ölmez B. B., Eicker U., BAKER D. K., Güğül G. N., Geçer K., Güleç S.

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- III. **DESIGN METHODOLOGY OF A CONCENTRATING SOLAR VOLUMETRIC RECEIVER**
Akba T., BAKER D. K., Mengüç M. P.
ASME 2023 17th International Conference on Energy Sustainability, ES 2023, Washington, Amerika Birleşik Devletleri, 10 - 12 Temmuz 2023
- 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., Praticò 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**
BAKER D. K.
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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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- IX. **TECHNICAL FEASIBILITY STUDY OF A SOLAR GEOTHERMAL HYBRID ELECTRIC POWER PLANT USING A COMBINED CYCLE**
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- X. **Proposal of a Novel Gravity-Fed, Particle-Filled Solar Receiver**
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- XI. **Study Case of Solar Thermal and Photovoltaic Heat Pump System for Different Cities in Turkey**
Moia-Pol A., Pujol-Nadal R., Martinez-Moll V., Bonyadi N., Baker D.
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- XII. **Solar Thermal Electricity Overview Activities in Turkey and New METU GÜNAM Laboratory ODAK**
BAKER D. K.
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- XIII. **Experimental analysis of energy storage device using phase change material integrated with a milk storage system**
NIMA B., SOMEK S. K., C CIHAN O., BAKER D. K., TARI İ.
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- XIV. **A methodology for designing tonpiz type transducers**
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- XV. **Numerical Analysis of Phase Change Material Characteristics in a Thermal Energy Storage Heat Exchanger**
NIMA B., SOMEK S. K., OZALEVLI C. C., BAKER D. K., TARI İ.
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- XVI. **Modeling of the rectifier of a mini absorption cooling device using ceramic hollow fiber membranes**
OZKAN O., GÜVENÇ YAZICIOĞLU A., BAKER D. K.

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- XVII. **Numerical analysis of phase change material characteristics used in a thermal energy storage device**
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- XVIII. **EXPERIMENTAL INVESTIGATION OF SINGLE-PHASE LIQUID FLOW AND HEAT TRANSFER IN MULTIPORT MINICHANNELS**
Altinoz M., GÜVENÇ YAZICIOĞLU A., Baker D.
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- XIX. **Adsorbent Refrigerant Comparison for a Solar Powered Adsorption Cooling System using Seasonal Simulations**
TAYLAN O., BAKER D. K., Kaftanoglu B.
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- XX. **Energy and exergy analysis for the electricity sector of Turkey**
Guray B. S., BAKER D. K.
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- XXI. **Parametric Study and Seasonal Simulations of a Solar Powered Adsorption Cooling System**
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- XXII. **TRENDS IN COP FOR ADSORPTION COOLING CYCLES WITH THERMAL REGENERATION AND FINITE NUMBER OF BEDS**
BAKER D. K., Kaftanoglu B.
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- XXIII. **ThermoNet: Part of an integrated website-textbook system**
Baker D., Canlidinc A.
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Desteklenen Projeler

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Baker D. K., Bial M., Erden Topal Y., Erdil E., Pamukcu M. T., Akçomak I. S., Aydinoğlu A. U., UFUK 2020 Projesi, HORIZON-STE: Implementation of the Initiative for Global Leadership in Solar Thermal Electricity, 2019 - 2022

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Baker D. K., Bayer Ö., Tarı I., Nitz P., UFUK 2020 Projesi, INSHIP: Integrating National Research Agendas on Solar Heat for Industrial Processes, 2017 - 2021

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Turan R., Baker D. K., Okutucu Özyurt H. T., AB Çerçeve Programları Destekli Proje, EU-Solaris, The European Solar Research Infrastructure for Concentrated Solar Power, 2012 - 2016

Metrikler

Yayın: 65

Atıf (WoS): 617

Atıf (Scopus): 701

H-İndeks (WoS): 15

H-İndeks (Scopus): 15