

Dr. Öğr. Üyesi NURTEN ŞAHAN

Kişisel Bilgiler

İş Telefonu: [+90 322 338 6081](tel:+903223386081) Dahili: 23

E-posta: sahann@cu.edu.tr

Web: <https://avesis.cu.edu.tr/sahann>

Posta Adresi: Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 01330 Sarıçam, Adana

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0001-6091-0055

ScopusID: 56087881100

Yoksis Araştırmacı ID: 311112

Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2011 - 2018

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2007 - 2011

Lisans, Çukurova Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 2003 - 2007

Yabancı Diller

Fransızca, B1 Orta

İngilizce, C1 İleri

Almanca, B2 Orta Üstü

Sertifika, Kurs ve Eğitimler

Eğitim Yönetimi ve Planlama, Summer Course on Exergy and Its Applications, Yaşar University, İzmir, 2018

Eğitim Yönetimi ve Planlama, Summer School, Exergy and its Applications, Yeditepe University, 2017

Eğitim Yönetimi ve Planlama, Short Term Scientific Mission, Zaragoza University, Mechanical Engineering Department, Spain,, 2016

Eğitim Yönetimi ve Planlama, Visiting Researcher, Minnesota University, Mechanical Engineering Department, Solar Energy Laboratory, 2015

Diğer, Training on Applied Patent Research, EBILTEM, 2013

Eğitim Yönetimi ve Planlama, Short Term Scientific Mission, Paris Est University, Center of studies and Researches of Thermic, Enviroment and Systems, 2012

Diğer, Training on Material Safety Data Shield (MSDS), SASA, 2012

Diğer, Training on Waste Management, SASA, 2012

Eğitim Yönetimi ve Planlama, Training School, Energy efficiency in renewable energy systems in buildings (NeCoE-PCM), Fraunhofer Institute, Freiburg Germany, supported by EU RTD, 2011

Eğitim Yönetimi ve Planlama, Internship, General Directorate of State Hydraulic Works, Adana, 2006

Diğer, International Organization for Standardization (ISO-9001-2000), KOBIGEM, 2006

Diğer, Training on Hazard Analysis and Critical Control Points Certificate (HACCP), KOBIGEM, 2006

Diğer, Management of quality systems training and documentation training certificate, KOBIGEM, 2006

Yaptığı Tezler

Doktora, Development of Phase Change Material Nano Composites for Thermal Management of Lithium Ion Batteries Used in Hybrid-Electric Vehicles, Çukurova Üniversitesi, Fen Bilimleri, Kimya, 2018
Yüksek Lisans, Investigation of Using Nano Particles with Phase Change Materials, Çukurova Üniversitesi, Fen Bilimleri, Kimya, 2011

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 2019 - Devam Ediyor

Verdiği Dersler

Staj Dersi (Internship Program), Lisans, 2018 - 2019
Mühendislik Kimyası(Chemistry for Engineering), Lisans, 2018 - 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Flexible phase change material packages for green transportation vehicles**
Şahan N., Mazman M., Kaypmaz C., Beyhan B., Paksoy H. O.
JOURNAL OF POWER SOURCES, sa.576, ss.1-9, 2023 (SCI-Expanded)
- II. **Designing behenic acid microcapsules as novel phase change material for thermal energy storage applications at medium temperature**
ŞAHAN N., Paksoy H. Ö.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.44, sa.5, ss.3922-3933, 2020 (SCI-Expanded)
- III. **Direct impregnation and characterization of Colemanite/Ulexite-Mg(OH)(2) paraffin based form-stable phase change composites**
Horpan M. S., ŞAHAN N., Paksoy H. Ö., Sivrikaya O., Güneş M.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.195, ss.346-352, 2019 (SCI-Expanded)
- IV. **Encapsulation of stearic acid with different PMMA-hybrid shell materials for thermotropic materials**
Şahan N., Nigon D., Mantell S. C., Davidson J. H., Paksoy H. Ö.
SOLAR ENERGY, cilt.184, ss.466-476, 2019 (SCI-Expanded)
- V. **Developing microencapsulated 12-hydroxystearic acid (HSA) for phase change material use**
Şahan N., Paksoy H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.42, sa.10, ss.3351-3360, 2018 (SCI-Expanded)
- VI. **Novel shapeable phase change material (PCM) composites for thermal energy storage (TES) applications**
ŞAHAN N., Paksoy H. Ö.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.174, ss.380-387, 2018 (SCI-Expanded)
- VII. **Investigating thermal properties of using nano-tubular ZnO powder in paraffin as phase change material composite for thermal energy storage**
ŞAHAN N., Paksoy H.
COMPOSITES PART B-ENGINEERING, cilt.126, ss.88-93, 2017 (SCI-Expanded)
- VIII. **Determining influences of SiO2 encapsulation on thermal energy storage properties of different phase change materials**
Şahan N., Paksoy H.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.159, ss.1-7, 2017 (SCI-Expanded)
- IX. **The effects of various carbon derivative additives on the thermal properties of paraffin as a phase change material**
Şahan N., Fois M., Paksoy H.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.40, sa.2, ss.198-206, 2016 (SCI-Expanded)

X. **Improving thermal conductivity phase change materials-A study of paraffin nanomagnetite composites**

Şahan N., Fois M., Paksoy H. Ö.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.137, ss.61-67, 2015 (SCI-Expanded)

XI. **Unconventional experimental technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties**

CABEZA L. F., BARRENECHE C., MARTORELL I., MIRO L., SARI-BEY S., FOIS M., PAKSOY H. Ö., SAHAN N., WEBER R., CONSTANTINESCU M., et al.

RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.43, ss.1399-1414, 2015 (SCI-Expanded)

XII. **Thermal enhancement of paraffin as a phase change material with nanomagnetite**

Şahan N., PAKSOY H. Ö.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.126, ss.56-61, 2014 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **Determining influences of different stirring methods for encapsulating stearic acid with SiO₂ shell for thermal energy storage applications**

Şahan N., Paksoy H. Ö.

Oxford Open Energy, cilt.1, sa.00, ss.1-5, 2023 (Hakemli Dergi)

Kitap & Kitap Bölümleri

I. **Endüstriyel Kimya Laboratuvarı**

KILINÇEKER G., ŞAHAN N.

Akademisyen Kitabevi, 2023

II. **Encyclopedia of Energy Storage**

Paksoy H. Ö., Şahan N., Konuklu Y.

Encyclopedia of Energy Storage, Luisa F. Cabeza, Editör, Elsevier Science, Oxford/Amsterdam , Berlin, ss.498-525, 2022

III. **Role of energy storage in 100% renewable urban areas**

Paksoy H. Ö., Şahan N., Koçak B.

Accelerating the Transition to a 100% Renewable Energy Era, Tanay Sıdkı Uyar, Editör, Springer, London/Berlin , Berlin, ss.411-437, 2020

IV. **Latent Heat Storage Systems**

Konuklu Y., Şahan N., PAKSOY H. Ö.

Comprehensive Energy Systems, Dinçer İ., Editör, Elsevier, Ottawa, ss.396-434, 2018

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Activated Carbon Coconut Shell as Base of Anode Battery: A Review**

Saputro E. A., Nurherdiana S. D., Rahma Wardhani D. S., Şahan N.

The 7th International Conference on Science Technology, Manado, Endonezya, 5 Eylül - 07 Ekim 2023, cilt.16, ss.344-360

II. **INVESTIGATING ENCAPSULATION OF PHASE CHANGE MATERIALS WITH CALCIUM CARBONATE SHELLS FOR THERMAL ENERGY STORAGE APPLICATIONS**

Şahan N.

The 2nd World Energy Storage Conference, İstanbul, Türkiye, 18 - 21 Aralık 2022, ss.1-3

- III. **Investigation of Thermal/Physical Properties of Colemanite/Ulexite-Mg(OH)₂Paraffin Composite Blends**
Horpan M. S., ŞAHAN N., PAKSOY H. Ö., Güneş M.
14.INTERNATIONAL CONFERENCE ON ENERGY STORAGE, Adana, Türkiye, 25 - 28 Nisan 2018, ss.102-103
- IV. **Thermal Management System of Li-Ion Battery for Electric-hybrid Vehicles with Advanced Nano-PCMs Composites**
ŞAHAN N., PAKSOY H. Ö., Mazman M., Kayıpmaz C., Beyhan B.
14.INTERNATIONAL CONFERENCE ON ENERGY STORAGE, Adana, Türkiye, 25 - 28 Nisan 2018, ss.112-113
- V. **Nano Materials for Thermal Enhancement of Phase Change Materials for Thermal Energy Storage**
ŞAHAN N., PAKSOY H. Ö.
SolarTR 2014 Conference & Exhibition, İzmir, Türkiye, 19 - 21 Kasım 2014, ss.107-108
- VI. **NANO MATERIALS FOR THERMAL ENHANCEMENT OF PHASE CHANGE MATERIALS FOR THERMAL ENERGY STORAGE**
Şahan N., PAKSOY H. Ö.
SOLARTR 2014 Conference & Exhibition, İzmir, Türkiye, 19 - 21 Kasım 2014, ss.376-379
- VII. **Thermal Properties of Paraffin-Nano Magnetite Composite for Thermal Energy Storage Applications**
ŞAHAN N., PAKSOY H. Ö.
10thNanoscience and Nanotechnology Conference, İstanbul, Türkiye, 17 - 21 Haziran 2014, ss.100-101
- VIII. **Determining Thermal Conductivity and Diffusivity of Paraffin Composites as Phase Change Materials for Thermal Energy Storage**
ŞAHAN N., FOIS M., PAKSOY H. Ö.
2nd International Energy Conference on Sustainable Energy Storage, Dublin, İrlanda, 19 - 21 Haziran 2013, ss.113-114
- IX. **Nano Magnetite Paraffin Composite as a PCM**
ŞAHAN N., PAKSOY H. Ö.
12th International Conference Energy Storage,Innostock?2012, Lleida, İspanya, 16 - 18 Mayıs 2012, ss.119-120
- X. **Thermally enhanced paraffin for solar applications**
Paksoy H., ŞAHAN N.
1st International Conference on Solar Heating and Cooling for Buildings and Industry (SHC), San-Francisco, Kostarika, 9 - 11 Temmuz 2012, cilt.30, ss.350-352
- XI. **Preparing of nano magnetite-paraffin and activated carbon-paraffin composites and determining of thermal properties of these composites**
ŞAHAN N., PAKSOY H. Ö.
25th National Chemistry Congress, Erzurum, Türkiye, 27 Haziran - 02 Temmuz 2011, ss.188-118
- XII. **New Binary Alkenes Mixtures As PCMs For Cooling Applications**
Yılmaz S., Sayın K., Gök Ö., Yılmaz M., Beyhan B., ŞAHAN N., PAKSOY H. Ö.
International Conference on Thermal Energy Storage , Effstock, Stockholm, İsveç, 30 Mayıs - 03 Haziran 2009, ss.112-115
- XIII. **Phase Change Material Applications for Domestic Appliances**
Gök Ö., Yılmaz M., Yılmaz S., Turgut B., Mazman M., Beyhan B., ŞAHAN N., PAKSOY H. Ö.
International Conference on Thermal Energy Storage, Effstock, Stockholm, İsveç, 30 Mayıs - 03 Haziran 2009, ss.36-38
- XIV. **Increasing energy efficiency of domestic appliances by thermal energy storage method with phase change materials**
Gök Ö., Yılmaz M., Yılmaz S., Turgut B., Mazman M., Beyhan B., ŞAHAN N., PAKSOY H. Ö., Evliya H.
VII. National Clean Energy Symposium, UTES?2008, İstanbul, Türkiye, 17 - 19 Aralık 2008, ss.12-15
- XV. **Binary Alkenes Mixtures As PCMs For Cooling Applications**
Yılmaz S., Gök Ö., Beyhan B., ŞAHAN N., PAKSOY H. Ö.
11st National Chemical Engineering Congress, Malatya, Türkiye, 26 - 29 Ağustos 2008, ss.14

Desteklenen Projeler

ŞAHAN N., AB Çerçeve Programları Destekli Proje, INPATH-TES PhD on Innovation Pathways for Thermal Energy Storage, 2015 - 2018

ŞAHAN N., Diğer Uluslararası Fon Programları, Thermotropic Materials for Low Cost Solar Thermal Collectors, 2015 - 2016

PAKSOY H. Ö., ŞAHAN N., AB Çerçeve Programları Destekli Proje, Next generation cost effective phase change materials for increased energy efficiency in renewable energy systems in buildings (NeCoE-PCM), 2013 - 2013

ŞAHAN N., TÜBİTAK Projesi, Thermal Management of Lithium Ion Batteries Used in Hybrid/Electric Vehicles with Phase Change Materials, 2010 - 2013

Bilimsel Dergilerdeki Faaliyetler

Oxford Open Energy , Editörler Kurulu Üyesi, 2020 - Devam Ediyor

Metrikler

Yayın: 32

Atıf (WoS): 559

Atıf (Scopus): 669

H-İndeks (WoS): 9

H-İndeks (Scopus): 10

Kongre ve Sempozyum Katılımı Faaliyetleri

Hasan Kalyoncu Üniversitesi- Re-New Talks , Davetli Konuşmacı, Gaziantep, Türkiye, 2022

ULUSLARARASI YENİLENEBİLİR ENERJİ ÇALIŞTAYI, Davetli Konuşmacı, Mardin, Türkiye, 2021

14.INTERNATIONAL CONFERENCE ON ENERGY STORAGE, ENERSTOCK 2018, Katılımcı, Adana, Türkiye, 2018

Powering the Energy Transition Conference: the role of Renewable Energy and Energy Efficiency, Katılımcı, Ankara, Türkiye, 2017

Meeting of Turkey Innovation Week, Katılımcı, Adana, Türkiye, 2015

8th Renewable Energy Resources Symposium,, Katılımcı, Türkiye, 2015

Annex 25 - ECES IA - IEA, , 7th Experts Meeting, Katılımcı, Adana, Türkiye, 2013

Personal Development Seminar, European Student's Forum (AEGEE), Katılımcı, Adana, Türkiye, 2006

Burslar

Grant for short scientific mission, supported by COST Action TU0802 project, Avrupa Birliği Komisyonu, 2012 - Devam Ediyor

Ödüller

ŞAHAN N., First degree award for completing exergy and its application summer course, Exergy and its application summer course, 2017, Haziran 2017

ŞAHAN N., Best poster award, 12th International Conference on Energy Storage, Poster titled `Nano Magnetite Paraffin Composite as a PCM, 2012, Leida, Spain, 12th International Conference on Energy Storage, Mayıs 2012

ŞAHAN N., Honor Degree Student, Çukurova University, Haziran 2004

