

Dr.Öğr.Üyesi NURTEN ŞAHAN

Kişisel Bilgiler

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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

Almanca, B2 Orta Üstü

Fransızca, B1 Orta

İngilizce, C1 İleri

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,

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. **Designing behenic acid microcapsules as novel phase change material for thermal energy storage applications at medium temperature**
ŞAHAN N., Paksoy H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.44, sa.5, ss.3922-3933, 2020 (SCI İndekslerine Giren Dergi)
- II. **Direct impregnation and characterization of Colemanite/Ulexite-Mg(OH)(2) paraffin based form-stable phase change composites**
Horpan M. S. , ŞAHAN N., Paksoy H., Sivrikaya O., Güneş M.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.195, ss.346-352, 2019 (SCI İndekslerine Giren Dergi)
- III. **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.
SOLAR ENERGY, cilt.184, ss.466-476, 2019 (SCI İndekslerine Giren Dergi)
- IV. **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 İndekslerine Giren Dergi)
- V. **Novel shapeable phase change material (PCM) composites for thermal energy storage (TES) applications**
ŞAHAN N., Paksoy H.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.174, ss.380-387, 2018 (SCI İndekslerine Giren Dergi)
- VI. **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 İndekslerine Giren Dergi)
- VII. **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 İndekslerine Giren Dergi)
- VIII. **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 İndekslerine Giren Dergi)
- IX. **Improving thermal conductivity phase change materials-A study of paraffin nanomagnetite composites**
Şahan N., Fois M., Paksoy H.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.137, ss.61-67, 2015 (SCI İndekslerine Giren Dergi)

- X. **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 İndekslerine Giren Dergi)
- XI. **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 İndekslerine Giren Dergi)

Kitap & Kitap Bölümleri

- I. **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
- II. **Latent Heat Storage Systems**
Konuklu Y., Sahan 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. **Investigation of Thermal/Physical Properties of Colemanite/Ulexite-Mg(OH)₂ Paraffin 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
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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

- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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., Desteklenmiş Diğer Projeler, 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

Davetli Kongre ve Sempozyum Faaliyetleri

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

Atıflar

Toplam Atıf Sayısı (WOS):347

h-indeksi (WOS):8

Burslar

Grant for short scientific mission, supported by COST Action TU0802 project, Avrupa Birliđi 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

ŞAHAN N., Honor Degree Student, Çukurova University, Eylül 2003