

# Prof. HALİME ÖMÜR PAKSOY

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: E-8794-2018

ScopusID: 6602929721

Yoksis Researcher ID: 6408

## Education Information

Doctorate, Cukurova University, Fen Edebiyat, Kimya, Turkey 1987 - 1992

Postgraduate, Cukurova University, Fen Edebiyat, Kimya, Turkey 1983 - 1986

Undergraduate, Bogazici University, Faculty Of Engineering, Kimya Mühendisliği, Turkey 1979 - 1983

## Foreign Languages

German, A1 Beginner

English, C1 Advanced

French, A1 Beginner

## Dissertations

Doctorate, Thermal Analysis of Heat Storage Materials and Integrated Heat Pump and Thermal Energy Storage System, Cukurova University, Fen Bilimleri Enstitüsü, Kimya, 1992

Postgraduate, Dolgulu Yatakta Isı Depolaması Üzerine Bir Çalışma, Cukurova University, Fen Bilimleri Enstitüsü, Kimya, 1986

## Research Areas

Chemical Engineering and Technology, Chemical Technologies, Chemistry, Physical Chemistry, nanocomposites, Thermodynamics, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2001 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 1996 - 2001

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 1994 - 1996

Lecturer PhD, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 1993 - 1994

## Academic and Administrative Experience

Head of Department, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2023 - Continues  
Academic Performance D. Board Member, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2020 - Continues  
Rektörlük Kalite Komisyonu Üyesi, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2018 - Continues  
Head of Ethics Committee, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2017 - Continues  
Director of the Center, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2011 - Continues  
Dean, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2017 - 2021  
Dean, Cukurova University, Guzel Sanatlar Fakültesi, 2006 - 2007  
Vice Dean, Cukurova University, Guzel Sanatlar Fakültesi, 2001 - 2006  
Head of Department, Cukurova University, Guzel Sanatlar Fakültesi, Tekstil ve Moda Tasarımı, 1999 - 2006  
Vice Rector, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2001 - 2002

## Courses

Thermal Energy Storage Systems and Applications, Doctorate, 2020 - 2021  
Advanced algorithms in chemistry, Postgraduate, 2020 - 2021  
Thermal Energy Storage 2, Postgraduate, 2019 - 2020  
Termal enerji depolama, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Thermal Energy Storage 1, Postgraduate, 2020 - 2021, 2018 - 2019

## Jury Memberships

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Çukurova Üniversitesi, December, 2020  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Niğde Ömer Halisdemir Üniversitesi, November, 2020

## Published journal articles indexed by SCI, SSCI, and AHCI

- 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, no.576, pp.1-9, 2023 (SCI-Expanded)
- II. **Criss-crossed a-Fe<sub>2</sub>O<sub>3</sub> nanorods/Bi<sub>2</sub>S<sub>3</sub> heterojunction for enhanced photoelectrochemical water splitting**  
Tezcan F., Ahmad A., Yerlikaya G., Zia-Ur-Rehman G., Paksoy H. Ö., Kardaş G.  
FUEL, vol.324, 2022 (SCI-Expanded)
- III. **Solar light driven photoelectrochemical water splitting using Mn-doped CdS quantum dots sensitized hierarchical rosette-rod TiO<sub>2</sub> photoanodes**  
Ahmad A., Tezcan F., Yerlikaya G., Zia-ur-Rehman Z., PAKSOY H. Ö., KARDAŞ G.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.916, 2022 (SCI-Expanded)
- IV. **The investigation of CdS-quantum-dot-sensitized Ag-deposited TiO<sub>2</sub> NRAs in photoelectrochemical hydrogen production**  
Tezcan F., Ahmad A., Yerlikaya G., Zia-ur-Rehman Z., PAKSOY H. Ö., KARDAŞ G.  
NEW JOURNAL OF CHEMISTRY, vol.46, no.19, pp.9290-9297, 2022 (SCI-Expanded)
- V. **Synthesis of n-heptadecane@MgCO<sub>3</sub> and n-heptadecane@MgCO<sub>3</sub>@Ag microcapsules for thermal energy storage applications with green chemistry**  
Emir S., PAKSOY H. Ö.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.2, pp.1111-

1120, 2022 (SCI-Expanded)

- VI. **Characterization of demolition waste powder to be processed as sensible thermal energy storage material**  
Koçak B., Fernandez A., Paksoy H. Ö.  
Solar Energy Materials And Solar Cells, vol.230, pp.1-7, 2021 (SCI-Expanded)
- VII. **Long-term stability of sensible thermal energy storage materials developed from demolition wastes interacting with hot heat transfer fluid**  
Paksoy H. Ö., Koçak B., Fernandez A. I.  
International Journal Of Energy Research, vol.45, pp.21451-21463, 2021 (SCI-Expanded)
- VIII. **Thermal energy storage in fluidized bed using microencapsulated phase change materials**  
Biçer Göktepe G., Farid M., Paksoy H. Ö.  
INTERNATIONAL JOURNAL OF SOLAR ENERGY, vol.222, pp.27-34, 2021 (SCI-Expanded)
- IX. **Three dimensional rosette-rod TiO<sub>2</sub>/Bi<sub>2</sub>S<sub>3</sub> heterojunction for enhanced photoelectrochemical water splitting**  
Ahmad A., Tezcan F., Yerlikaya G., Rehman Z., Paksoy H. Ö., Kardaş G.  
Journal Of Alloys And Compounds, vol.868, pp.159133, 2021 (SCI-Expanded)
- X. **Benchmarking study of demolition wastes with different waste materials as sensible thermal energy storage**  
Kocak B., Fernandez A., Paksoy H. Ö.  
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.219, 2021 (SCI-Expanded)
- XI. **Performance of laboratory scale packed-bed thermal energy storage using new demolition waste based sensible heat materials for industrial solar applications**  
Kocak B., Paksoy H. Ö.  
SOLAR ENERGY, vol.211, pp.1335-1346, 2020 (SCI-Expanded)
- XII. **Review on sensible thermal energy storage for industrial solar applications and sustainability aspects**  
Koçak B., Fernandez A. I., Paksoy H. Ö.  
Solar Energy, vol.209, pp.135-169, 2020 (SCI-Expanded)
- XIII. **Preparation, characterization, and thermal properties of novel fire-resistant microencapsulated phase change materials based on paraffin and a polystyrene shell**  
Kazanci B., Cellat K., Paksoy H. Ö.  
RSC ADVANCES, vol.10, no.40, pp.24134-24144, 2020 (SCI-Expanded)
- XIV. **Editorial for the Special Issue on the 14th International Conference on Energy Storage- EnerSTOCK2018**  
PAKSOY H. Ö.  
SOLAR ENERGY, vol.200, pp.1, 2020 (SCI-Expanded)
- XV. **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, vol.44, no.5, pp.3922-3933, 2020 (SCI-Expanded)
- XVI. **2 years of monitoring results from passive solar energy storage in test cabins with phase change materials**  
Cellat K., Beyhan B., Konuklu Y., DÜNDAR C., KARAHAN O., Gungor C., Paksoy H.  
SOLAR ENERGY, vol.200, pp.29-36, 2020 (SCI-Expanded)
- XVII. **Underground thermal heat storage and ground source heat pump activities in Turkey**  
Cetin A., KADIOĞLU Y. K., Paksoy H.  
SOLAR ENERGY, vol.200, pp.22-28, 2020 (SCI-Expanded)
- XVIII. **Enhanced photoelectrochemical water splitting using gadolinium doped titanium dioxide nanorod array photoanodes**  
Ahmad A., Yerlikaya G., Zia-Ur-Rehman Z., Paksoy H. Ö., Kardas G.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.4, pp.2709-2719, 2020 (SCI-Expanded)

- XIX. **Using demolition wastes from urban regeneration as sensible thermal energy storage material**  
KOCAK B., Paksoy H.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.12, pp.6454-6460, 2019 (SCI-Expanded)
- XX. **Guest editorial for the special issue on progress in energy storage systems**  
PAKSOY H. Ö.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.12, pp.6060, 2019 (SCI-Expanded)
- XXI. **Comprehensive investigation of butyl stearate as a multifunctional smart concrete additive for energy-efficient buildings**  
Cellat K., Tezcan F., KARDAŞ G., Paksoy H. Ö.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.13, pp.7146-7158, 2019 (SCI-Expanded)
- XXII. **Thermal buffering effect of a packaging design with microencapsulated phase change material**  
Ünal M., Konuklu Y., Paksoy H.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.9, pp.4495-4505, 2019 (SCI-Expanded)
- XXIII. **Laboratory investigation on the use of thermally enhanced phase change material to improve the performance of borehole heat exchangers for ground source heat pumps**  
Lyne Y., Paksoy H. Ö., Farid M.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.9, pp.4148-4156, 2019 (SCI-Expanded)
- XXIV. **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, vol.195, pp.346-352, 2019 (SCI-Expanded)
- XXV. **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, vol.184, pp.466-476, 2019 (SCI-Expanded)
- XXVI. **Developing microencapsulated 12-hydroxystearic acid (HSA) for phase change material use**  
Şahan N., Paksoy H.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.42, no.10, pp.3351-3360, 2018 (SCI-Expanded)
- XXVII. **Integration of passive PCM technologies for net-zero energy buildings**  
Striti U., Tyagi V., Stropnik R., PAKSOY H. Ö., HAGHIGHAT F., Joybari M. M.  
Sustainable Cities and Society, vol.41, pp.286-295, 2018 (SCI-Expanded)
- XXVIII. **Energy storage key performance indicators for building application**  
Del Pero C., Aste N., Paksoy H., HAGHIGHAT F., GRILLO S., LEONFORTE F.  
SUSTAINABLE CITIES AND SOCIETY, vol.40, pp.54-65, 2018 (SCI-Expanded)
- XXIX. **Novel shapeable phase change material (PCM) composites for thermal energy storage (TES) applications**  
ŞAHAN N., Paksoy H. Ö.  
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.174, pp.380-387, 2018 (SCI-Expanded)
- XXX. **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, vol.126, pp.88-93, 2017 (SCI-Expanded)
- XXXI. **A comparative study on corrosion behavior of rebar in concrete with fatty acid additive as phase change material**  
CELLAT K., TEZCAN F., Beyhan B., KARDAŞ G., Paksoy H.  
CONSTRUCTION AND BUILDING MATERIALS, vol.143, pp.490-500, 2017 (SCI-Expanded)
- XXXII. **Determining influences of SiO<sub>2</sub> encapsulation on thermal energy storage properties of different phase change materials**  
Şahan N., Paksoy H.  
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.159, pp.1-7, 2017 (SCI-Expanded)
- XXXIII. **Robust microencapsulated phase change materials in concrete mixes for sustainable buildings**  
Beyhan B., CELLAT K., Konuklu Y., GUNGOR C., KARAHAN O., DÜNDAR C., Paksoy H.

- INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.41, no.1, pp.113-126, 2017 (SCI-Expanded)
- XXXIV. **Polystyrene-based caprylic acid microencapsulation for thermal energy storage**  
Konuklu Y., PAKSOY H. Ö.  
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.159, pp.235-242, 2017 (SCI-Expanded)
- XXXV. **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, vol.40, no.2, pp.198-206, 2016 (SCI-Expanded)
- XXXVI. **Synthesis and properties of microencapsulated phase change materials for thermal energy storage materials**  
Konuklu Y., PAKSOY H. Ö.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.48, pp.206-209, 2016 (SCI-Expanded)
- XXXVII. **Iller bank-Atasehir-building ground source heat pump system and thermal response test - case study**  
CETIN A., ISIK O., CETIN S., KADIOGLU Y. K., PAKSOY H.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.48, pp.27-30, 2016 (SCI-Expanded)
- XXXVIII. **Thermal enhancement of concrete by adding bio-based fatty acids as phase change materials**  
CELLAT K., BEYHAN B., GUNGOR C., KONUKLU Y., KARAHAN O., DÜNDAR C., PAKSOY H.  
ENERGY AND BUILDINGS, vol.106, pp.156-163, 2015 (SCI-Expanded)
- XXXIX. **Review on using microencapsulated phase change materials (PCM) in building applications**  
Konuklu Y., OSTRY M., PAKSOY H. Ö., CHARVAT P.  
ENERGY AND BUILDINGS, vol.106, pp.134-155, 2015 (SCI-Expanded)
- XL. **CO<sub>2</sub> mitigation accounting for Thermal Energy Storage (TES) case studies**  
Cabeza L. F., MIRO L., ORO E., DE GRACIA A., MARTIN V., KROENAUER A., RATHGEBER C., FARID M. M., PAKSOY H. Ö., MARTINEZ M., et al.  
APPLIED ENERGY, vol.155, pp.365-377, 2015 (SCI-Expanded)
- XLI. **Improving performance of household refrigerators by incorporating phase change materials**  
YUSUFOGLU Y., APAYDIN T., YILMAZ Ş., PAKSOY H. Ö.  
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.57, pp.173-185, 2015 (SCI-Expanded)
- XLII. **Nanoencapsulation of n-alkanes with poly(styrene-co-ethylacrylate) shells for thermal energy storage**  
Konuklu Y., PAKSOY H. Ö., ÜNAL M.  
APPLIED ENERGY, vol.150, pp.335-340, 2015 (SCI-Expanded)
- XLIII. **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, vol.137, pp.61-67, 2015 (SCI-Expanded)
- XLIV. **The Preparation and Characterization of Chitosan-Gelatin Microcapsules and Microcomposites with Fatty Acids as Thermal Energy Storage Materials**  
Konuklu Y., PAKSOY H. Ö.  
ENERGY TECHNOLOGY, vol.3, no.5, pp.503-508, 2015 (SCI-Expanded)
- XLV. **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, vol.43, pp.1399-1414, 2015 (SCI-Expanded)
- XLVI. **Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2-morphological and structural characterization, physico-chemical stability and mechanical properties**  
INES FERNANDEZ A., SOLE A., GIRO-PALOMA J., MARTINEZ M., HADJIEVA M., BOUDENNE A., CONSTANTINESCU M., ANGHEL E. M., MALIKOVA M., KRUPA I., et al.

- RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.43, pp.1415-1426, 2015 (SCI-Expanded)
- XLVII. **Thermal enhancement of paraffin as a phase change material with nanomagnetite**  
Şahan N., PAKSOY H. Ö.  
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.126, pp.56-61, 2014 (SCI-Expanded)
- XLVIII. **Microencapsulation of a fatty acid with Poly (melamine-urea-formaldehyde)**  
Konuklu Y., PAKSOY H. Ö., Unal M., Konuklu S.  
ENERGY CONVERSION AND MANAGEMENT, vol.80, pp.382-390, 2014 (SCI-Expanded)
- XLIX. **Microencapsulation of caprylic acid with different wall materials as phase change material for thermal energy storage**  
Konuklu Y., Unal M., PAKSOY H. Ö.  
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.120, pp.536-542, 2014 (SCI-Expanded)
- L. **Root zone temperature control with thermal energy storage in phase change materials for soilless greenhouse applications**  
Beyhan B., Paksoy H., Dasgan Y.  
ENERGY CONVERSION AND MANAGEMENT, vol.74, pp.446-453, 2013 (SCI-Expanded)
- LI. **Exploiting solar energy potential through thermal energy storage in Slovenia and Turkey**  
Stritih U., Osterman E., Eyliya H., Butala V., Paksoy H.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.25, pp.442-461, 2013 (SCI-Expanded)
- LII. **Phase Change Material Sandwich Panels for Managing Solar Gain in Buildings**  
Konuklu Y., PAKSOY H. Ö.  
JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, vol.131, no.4, 2009 (SCI-Expanded)
- LIII. **Utilization of phase change materials in solar domestic hot water systems**  
Mazman M., Cabeza L. F., Mehling H., Nogues M., Evliya H., PAKSOY H. Ö.  
RENEWABLE ENERGY, vol.34, no.6, pp.1639-1643, 2009 (SCI-Expanded)
- LIV. **CO2 mitigation with thermal energy storage**  
Paksoy H. Ö., Evliya H., BOZDAĞ Ş., Mazman M., Konuklu Y., turgut B., Gok O., Yilmaz M., Yilmaz S., Beyhan B.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.1, pp.253-269, 2009 (SCI-Expanded)
- LV. **Ground water level influence on thermal response test in Adana, Turkey**  
BOZDAĞ Ş., turgut b., PAKSOY H. Ö., dikici d., mazman m., evliya h.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.32, no.7, pp.629-633, 2008 (SCI-Expanded)
- LVI. **Heat transfer enhancement of fatty acids when used as PCMs in thermal energy storage**  
Mazman M., Cabeza L. F., Mehling H., PAKSOY H. Ö., Evliya H.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.32, no.2, pp.135-143, 2008 (SCI-Expanded)
- LVII. **Microencapsulation of coco fatty acid mixture for thermal energy storage with phase change material**  
Ozonur Y., Mazman M., Paksoy H. O., Evliya H.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.30, no.10, pp.741-749, 2006 (SCI-Expanded)
- LVIII. **Aquifer thermal storage (ATES) for air-conditioning of a supermarket in Turkey**  
Paksoy H., Gurbuz Z., Turgut B., Dikici D., Evliya H.  
RENEWABLE ENERGY, vol.29, no.12, pp.1991-1996, 2004 (SCI-Expanded)
- LIX. **Borehole thermal energy storage applications and in-situ thermal response test - Example from Turkey and situation in Slovenia**  
Stritih U., Rajver D., Turgut B., Paksoy H.  
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.50, no.6, pp.328-340, 2004 (SCI-Expanded)
- LX. **Heating and cooling of a hospital using solar energy coupled with seasonal thermal energy storage in an aquifer**  
Paksoy H., Andersson O., Abaci S., Evliya H., Turgut B.  
RENEWABLE ENERGY, vol.19, pp.117-122, 2000 (SCI-Expanded)
- LXI. **Energetic and exergetic efficiency of latent heat storage system for greenhouse heating**  
Bascetincelik A., Ozturk H., Paksoy H., Demirel Y.  
RENEWABLE ENERGY, vol.16, pp.691-694, 1999 (SCI-Expanded)

- LXII. **Calculations of thermodynamic derivative properties from the NRTL and UNIQUAC models**  
Demirel Y., Paksoy H.  
THERMOCHIMICA ACTA, vol.303, no.2, pp.129-136, 1997 (SCI-Expanded)
- LXIII. **The performance of UNIFAC and related group contribution models .2. Prediction of Henry's law constants**  
Ornektekin S., Paksoy H., Demirel Y.  
THERMOCHIMICA ACTA, vol.287, no.2, pp.251-259, 1996 (SCI-Expanded)
- LXIV. **The performance of UNIFAC and related group contribution models .1. Prediction of infinite dilution activity coefficients**  
Paksoy H., Ornektekin S., Balcl B., Demirel Y.  
THERMOCHIMICA ACTA, vol.287, no.2, pp.235-249, 1996 (SCI-Expanded)
- LXV. **Determining thermal properties of heat storage materials using the twin bath method**  
Paksoy H. Ö.  
ENERGY CONVERSION AND MANAGEMENT, vol.37, no.3, pp.261-268, 1996 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Numerical analysis of demolition waste-based thermal energy storage system for concentrated solar power plants**  
Koçak B., PAKSOY H. Ö.  
Energy Storage, 2024 (ESCI)
- II. **High Temperature Thermal Energy Storage for Industrial Solar Applications**  
Koçak B., Kardaş G., Südaş İ., Paksoy H. O.  
Tesisat Mühendisliği, no.198, pp.11-22, 2023 (Peer-Reviewed Journal)
- III. **Determining influences of different stirring methods for encapsulating stearic acid with SiO<sub>2</sub> shell for thermal energy storage applications**  
Şahan N., Paksoy H. Ö.  
Oxford Open Energy, vol.1, no.00, pp.1-5, 2023 (Peer-Reviewed Journal)
- IV. **New multilayered microencapsulated phase change material with CaCO<sub>3</sub> and Ag shells**  
Emir S., Paksoy H. Ö.  
ENERGY STORAGE, vol.3, no.1, 2021 (ESCI)
- V. **Energy Analysis and Carbon Saving Potential of a Complex Heating System with Solar Assisted Heat Pump and Phase Change Material (PCM) Thermal Storage in Different Climatic Conditions**  
Stritih U., Zavrl E., PAKSOY H. Ö.  
EUROPEAN JOURNAL OF SUSTAINABLE DEVELOPMENT, vol.1, pp.1-17, 2018 (ESCI)
- VI. **Sustainable energy management Solar energy and thermal storage technologies in two Mediterranean countries**  
Stritih U., Paksoy H. Ö., Turgut B., Osterman E., Evliya H., Butala V.  
MANAGEMENT OF ENVIRONMENTAL QUALITY, vol.26, no.5, pp.764-790, 2015 (ESCI)
- VII. **Akiferde termal enerji depolama tekniğinin uygulama çalışmaları**  
BOZDAĞ Ş., Paksoy H. Ö., Turgut B.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.18, pp.155-160, 2003 (Peer-Reviewed Journal)
- VIII. **Greenhouse Heating with Solar energy and Phase Change Energy Storage**  
Başçetinçelik A., Öztürk H. H., Paksoy H. Ö.  
Acta Horticulture, vol.443, pp.63-70, 1997 (Scopus)

## Books & Book Chapters

- I. **Role of Energy Storage in 100% Renewable Urban Areas**  
Paksoy H. Ö., Şahan N., Koçak B.  
in: Accelerating the Transition to a 100% Renewable Energy Era , Tanay S. Uyar, Editor, Springer, London/Berlin , Basel, pp.411-437, 2020
- II. **Latent Heat Storage Systems**  
Konuklu Y., Sahan N., PAKSOY H. Ö.  
in: Comprehensive Energy Systems, Dinçer İ., Editor, Elsevier, Ottawa, pp.396-434, 2018
- III. **Novel Building Materials**  
Fabiani C., Pisello A. L., PAKSOY H. Ö.  
in: Comprehensive Energy Systems, Dincer I, Editor, Elsevier, Ottawa, pp.980-1017, 2018
- IV. **Thermal energy storage systems for greenhouse technology**  
PAKSOY H. Ö., Beyhan B.  
in: Advances in Thermal Energy Storage Systems, 1st Edition Methods and Applications, Cabeza L.F., Editor, Woodhead Publishing Limited , Cambridge, pp.562-588, 2015

## Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of Photoelectrochemical Activities of Calcined andUncalcined TiO<sub>2</sub>/ BiVO<sub>4</sub> Photoanodes**  
Ahmad A., Tezcan F., Yerlikaya G., PAKSOY H. Ö., KARDAŞ G.  
71st Annual Meeting of the International Society of Electrochemistry, Belgrade, Serbia, 30 August 2020
- II. **akiferde termal enerji depolama (ATED)teknğinde belirleyici koşullar**  
BOZDAĞ Ş., Turgut B., Paksoy H. Ö., Evliya H.  
53.Türkiye Jeoloji Kurultayı, Ankara, Turkey, pp.94
- III. **akiferde termal enerji depolanması**  
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Paksoy H. Ö., Industrial Thesis Project, Faz Değıştiren Maddelerde Termal Enerji Depolamasının Kullanımıyla Buzdolaplarında Enerji Verimliliğinin Artırılması, 2006 - 2009

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PAKSOY H. Ö., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Mikrokapsülenmiş Faz Değıştiren Maddelerde Termal Enerji Depolama ile Binalarda Enerji Tasarrufu, 2005 - 2006

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## Patent

Paksoy H. Ö., İNŞAAT VE YIKINTI ATIKLARINDAN TERMAL ENERJİ DEPOLAMA MALZEMESİ , Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: PCT/TR2020/050294 , Standard Registration, 2020

Paksoy H. Ö., NARENÇİYE AĞAÇLARININ ISIL KORUNMASI İÇİN FAZ DEĞİŞTİREN MADDE KULLANIMI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: PCT/TR2019/051148 , Standard Registration, 2020

Paksoy H. Ö., AŞIRI ISINMAYI ÖNLEYEN AKILLI CEP TELEFONU KILIFLARINA ENTEGRE EDİLEBİLİR GENİŞLETİLMİŞ

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Paksoy H. Ö., 3D Yazıcılar İçin Geliştirilen Kalsiyum Alüminat Çimentosu Esaslı Harç Karışımı, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2020/16580 , Standard Registration, 2020

## Activities in Scientific Journals

Solar Energy, Assistant Editor/Section Editor, 2010 - Continues

## Memberships / Tasks in Scientific Organizations

Türk Tesisat Mühendisleri Derneği, Member, 2010 - Continues

Kimya Mühendisleri Odası, Member, 2000 - Continues

## Scientific Research / Working Group Memberships

Energy Conservation Through Energy Storage, Uluslararası Enerji Ajansı, Amerika Birleşik Devletleri, www.iea-eces.org, 1995 - Continues

## Metrics

Publication: 161

Citation (WoS): 2473

Citation (Scopus): 2810

H-Index (WoS): 28

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## Congress and Symposium Activities

Joint Conference Thermal Energy Storage - Perspectives and Applications in an Industrial Environment, Invited Speaker, Frankfurt, Germany, 2016

Greenstock International Conference on Energy Storage, Invited Speaker, Beijing, China, 2015

## Scholarships

Doktora sonrası araştırma bursu, TÜBİTAK, 2006 - 2007

Turkish Representative, Official Institutions of Foreign Countries, 1999 - 1999

Doktora bursu, TÜBİTAK, 1990 - 1991

## Awards

PAKSOY H. Ö., Soroptomist Başarılı Kadın Ödülü, Soroptomist International, March 2018

PAKSOY H. Ö., Best Poster Award, Greenstock International Conference on Energy Storage, May 2015

PAKSOY H. Ö., Meslek Hizmet Ödülü, Adana Rotary Club, May 2001

PAKSOY H. Ö., Fen ve Teknik Gelişme, Türkiye Birincisi, Jonior Chamber Turkey, The Outstanding Young Persons Competition, January 2000



## **Non Academic Experience**

FP7 ve Horizon2020 Enerji Komisyonu

International Energy Agency Energy Conservation Through Energy Storage Programme

International Energy Agency Energy Conservation Through Energy Storage Programme

University of Stockton

Richard Stockton College

International Energy Agency Energy Conservation Through Energy Storage Programme