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Publons / Web Of Science ResearcherID: AAT-3328-2020

ScopusID: 57205656345

Yoksis Araştırmacı ID: 266122

### Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2017 - 2022

Yüksek Lisans, The University of Manchester, Faculty Of Science And Engineering, School Of Materials, Birleşik Krallık 2015 - 2016

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, BİNALARDA ISIL ENERJİ DEPOLAMA AMAÇLI KOMPOZİT FAZ DEĞİŞİM MALZEMELERİNİN GELİŞTİRİLMESİ, KARAKTERİZASYONU VE LABORATUVAR ÖLÇEKLİ UYGULAMALARI, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2022

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### Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Nanomalzemeler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2023 - Devam Ediyor

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2017 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Production and assessment of UV-cured resin coated stearyl alcohol/expanded graphite as novel shape-stable composite phase change material for thermal energy storage**  
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- II. **Physico-mechanical properties and thermal monitoring performance of thermal enhanced cement slurry-coated LWAs containing microencapsulated phase change material**  
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- III. **A novel cement mortar comprising natural zeolite/dodecyl alcohol shape stable composite phase change material for energy effective buildings**  
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- IV. **Innovative cementitious mortar incorporated with sepiolite based shape-stable phase change material for thermal controlling of buildings**  
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- V. **Enhancing sustainability with waste hemp-shive and phase change material: Novel gypsum-based composites with advanced thermal energy storage properties**  
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- VI. **Microencapsulated phase change material/wood fiber-starch composite as novel bio-based energy storage material for buildings**  
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- VII. **Novel integration of recycled-hemihydrate phosphogypsum and ethyl palmitate in composite phase change material for building thermal regulation**  
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- VIII. **A Novel Layered Double Hydroxide and Dodecyl Alcohol Assisted PCM Composite with High Latent Heat Storage Capacity and Thermal Conductivity**  
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- IX. **3D-printed polylactic acid-microencapsulated phase change material composites for building thermal management**  
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- X. **Characterisation and energy storage performance of 3D printed-photocurable resin/microencapsulated phase change material composite**  
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- XI. **Effects of graphene doping on shape stabilization, thermal energy storage and thermal conductivity properties of PolyHIPE/PEG composites**  
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- XII. **Thermal energy storage performance evaluation of bio-based phase change material/apricot kernel shell derived activated carbon in lightweight mortar**  
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- XIII. **Thermophysical properties and solar thermal energy storage performance of phase change composites manufactured by vat photopolymerization 3D printing technique**

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- XIV. **Fuel, cost, energy efficiency and CO<sub>2</sub> emission performance of PCM integrated wood fiber composite phase change material at different climates**  
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- XV. **Developing Wallpaper/Dodecyl alcohol composite phase change materials as new kind of wall covering elements for building interior thermoregulation**  
Gencil O., Ustaoglu A., Sarı A., Hekimoğlu G., Sutcu M., Tozluoglu A., Tutus A., Cicekler M., Veer Tyagi V.  
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- XVI. **Shape stabilized microcrystalline cellulose/methyl stearate/graphene nanoplatelet composite with enriched thermal conductivity and thermal energy storage/release performance**  
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- XVII. **Thermal performance analysis of novel foam concrete composites with PCM for energy storage and environmental benefits in buildings**  
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- XVIII. **Expanded glass sphere/lauryl alcohol composite in gypsum: Physico-mechanical properties, energy storage performance and environmental impact assessment**  
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- XIX. **Microencapsulated phase change material incorporated light transmitting gypsum composite for thermal energy saving in buildings**  
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- XX. **Activated carbon/expanded graphite hybrid structure for development of nonadecane based composite PCM with excellent shape stability, enhanced thermal conductivity and heat charging-discharging performance**  
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- XXI. **Thermal energy saving and physico-mechanical properties of foam concrete incorporating form-stabilized basalt powder/capric acid based composite phase change material**  
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- XXII. **Expanded waste glass/methyl palmitate/carbon nanofibers as effective shape stabilized and thermal enhanced composite phase change material for thermal energy storage**  
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- XXIII. **Effect of carbon nanotube and microencapsulated phase change material utilization on the thermal energy storage performance in UV cured (photoinitiated) unsaturated polyester composites**  
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- XXIV. **Light transmitting glass fiber reinforced cementitious composite containing microencapsulated phase change material for thermal energy saving**  
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- XXV. **Development, characterization, and performance analysis of shape-stabilized phase change material included-geopolymer for passive thermal management of buildings**  
Gencil O., Harja M., SARI A., HEKİMOĞLU G., Ustaoglu A., Sutcu M., Erdogmus E., KAPLAN G., Bayraktar O. Y.  
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- XXVI. **Development and characterization a novel leakage-proof form stable composite of graphitic carbon nitride and fatty alcohol for thermal energy storage**  
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- XXVII. **Characteristics, energy saving and carbon emission reduction potential of gypsum wallboard containing phase change material**  
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- XXVIII. **Thermal energy storage characteristics of polyacrylic acid/dodecanol/carbon nanofiber composites as thermal conductive shape-stabilized composite phase change materials**  
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- XXIX. **Properties of eco-friendly foam concrete containing PCM impregnated rice husk ash for thermal management of buildings**  
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- XXX. **Development, characterization and thermo-regulative performance of microencapsulated phase change material included-glass fiber reinforced foam concrete as novel thermal energy effective-building material**  
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- XXXI. **The effect of limestone and bottom ash sand with recycled fine aggregate in foam concrete**  
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- XXXII. **Thermal energy storage properties, thermal conductivity, chemical/and thermal reliability of three different organic phase change materials doped with hexagonal boron nitride**  
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- XXXIII. **Properties of Scots pine wood impregnated with capric acid for potential energy saving building material**  
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- XXXIV. **Glass fiber reinforced gypsum composites with microencapsulated PCM as novel building thermal energy storage material**  
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- XXXV. **Activated carbon nanotube/polyacrylic acid/stearyl alcohol nanocomposites as thermal energy storage effective shape-stabilized phase change materials**  
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- XXXVI. **Foam Concrete Produced with Recycled Concrete Powder and Phase Change Materials**  
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- XXXVII. **Capric-stearic acid mixture impregnated carbonized waste sugar beet pulp as leak-resistive composite phase change material with effective thermal conductivity and thermal energy storage performance**  
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- XXXVIII. **Investigation of physico-mechanical, thermal properties and solar thermoregulation performance of shape-stable attapulgite based composite phase change material in foam concrete**

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- XXXIX. **Bio-Based Phase Change Materials for Wooden Building Applications**  
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- XL. **Metal Oxide Nanoparticle Dispersed-Polyethylene Glycol: Thermal Conductivity and Thermal Energy Storage Properties**  
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- XLI. **Utilization of waste apricot kernel shell derived-activated carbon as carrier framework for effective shape-stabilization and thermal conductivity enhancement of organic phase change materials used for thermal energy storage**  
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- XLII. **CuO Nanoparticle@Polystyrene Hierarchical Porous Foam for the Effective Encapsulation of Octadecanol as a Phase Changing Thermal Energy Storage Material**  
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- XLIII. **Cement based-thermal energy storage mortar including blast furnace slag/capric acid shape-stabilized phase change material: Physical, mechanical, thermal properties and solar thermoregulation performance**  
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- XLIV. **Thermal conductivity enhancement of silica fume based composite thermal energy storage material using different carbon nanomaterials**  
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- XLV. **Production and characterization of natural clay-free green building brick materials using water treatment sludge and oak wood ash**  
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- XLVI. **Shape stabilized attapulgite/myristic-palmitic acid composite PCM for thermal energy storage implementations in buildings**  
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- XLVII. **A review on phase change materials (PCMs) for thermal energy storage implementations**  
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- XLVIII. **Porous biochar/heptadecane composite phase change material with leak-proof, high thermal energy storage capacity and enhanced thermal**  
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- XLIX. **A novel energy-effective and carbon-emission reducing mortars with bottom ash and phase change material: Physico-mechanical and thermal energy storage characteristics**  
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- L. **Eco-friendly building materials containing micronized expanded vermiculite and phase change material for solar based thermo-regulation applications**  
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- LI. **High internal phase emulsion templated-polystyrene/carbon nano fiber/hexadecanol composites**

**phase change materials for thermal management applications**

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- LII. **Carbonized waste hazelnut wood-based shape-stable composite phase change materials for thermal management implementations**  
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- LIII. **Microencapsulated heptadecane with calcium carbonate as thermal conductivity-enhanced phase change material for thermal energy storage**  
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- LIV. **Silica fume/capric acid-stearic acid PCM included-cementitious composite for thermal controlling of buildings: Thermal energy storage and mechanical properties**  
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- LV. **Walnut shell derived bio-carbon/methyl palmitate as novel composite phase change material with enhanced thermal energy storage properties**  
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- LVI. **Thermal management performance and mechanical properties of a novel cementitious composite containing fly ash/lauric acid-myristic acid as form-stable phase change material**  
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- LVII. **Fly Ash/Octadecane Shape-Stabilized Composite PCMs Doped with Carbon-Based Nanoadditives for Thermal Regulation Applications**  
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- LVIII. **Phase change material impregnated wood for passive thermal management of timber buildings**  
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- LIX. **Thermal energy storage and thermal conductivity properties of fatty acid/fatty acid-grafted-CNTs and fatty acid/CNTs as novel composite phase change materials**  
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- LX. **Evaluation of pumice for development of low-cost and energy-efficient composite phase change materials and lab-scale thermoregulation performances of its cementitious plasters**  
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- LXI. **Effects of Thermal Cycling Operation on Solar Thermal Energy Storage, Morphology, Chemical/Crystalline Structure, and Thermal Degradation Properties of Some Fatty Alcohols as Organic PCMs**  
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- LXII. **Thermal energy storage and thermal conductivity properties of Octadecanol-MWCNT composite PCMs as promising organic heat storage materials**  
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- LXIII. **Form-Stabilized Polyethylene Glycol/Palygorskite Composite Phase Change Material: Thermal Energy Storage Properties, Cycling Stability, and Thermal Durability**  
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- LXIV. **Low cost and eco-friendly wood fiber-based composite phase change material: Development, characterization and lab-scale thermoregulation performance for thermal energy storage**  
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- LXV. **Evaluation of carbonized waste tire for development of novel shape stabilized composite phase change material for thermal energy storage**  
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- LXVI. **Investigation of thermal properties and enhanced energy storage/release performance of silica fume/myristic acid composite doped with carbon nanotubes**  
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- LXVII. **Preparation, characterization, thermal energy storage properties and temperature control performance of form-stabilized sepiolite based composite phase change materials**  
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- LXVIII. **Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material**  
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### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **TERMAL ENERJİ DEPOLAMADA FAZ DEĞİŞTİREN MADDELERİN ODUN KOMPOZİTLERİNDE KULLANILABİLİRLİĞİ**  
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- II. **ENERJİ DEPOLAMADA FAZ DEĞİŞTİREN MADDELERİN AHŞAP MALZEMEDE KULLANILMASI**  
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## **Metrikler**

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