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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2017 - 2022

Postgraduate, The University of Manchester, Faculty Of Science And Engineering, School Of Materials, United Kingdom 2015 - 2016

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, BİNALARDA ISIL ENERJİ DEPOLAMA AMAÇLI KOMPOZİT FAZ DEĞİŞİM MALZEMELERİNİN GELİŞTİRİLMESİ, KARAKTERİZASYONU VE LABORATUVAR ÖLÇEKLİ UYGULAMALARI, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2022

Postgraduate, Stable Aqueous Dispersions of Reduced Graphene Oxide with 1-Pyrenesulphonic Acid Sodium Salt, University of Manchester, Faculty Of Science And Engineering, School Of Materials, 2016

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2023 - Continues

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2017 - Continues

- 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**
GÜLER O., Er Y., HEKİMOĞLU G., Ustaoglu A., SARI A., Subaşı S., Maraşlı M., Gencil O.
Applied Thermal Engineering, vol.247, 2024 (SCI-Expanded)
- II. **Physico-mechanical properties and thermal monitoring performance of thermal enhanced cement slurry-coated LWAs containing microencapsulated phase change material**
Emiroğlu M., ÖZGÜLER A. T., NAS M., Subasi S., SARI A., HEKİMOĞLU G., Ustaoglu A., Gencil O.
Materials Today Sustainability, vol.26, 2024 (SCI-Expanded)
- III. **A novel cement mortar comprising natural zeolite/dodecyl alcohol shape stable composite phase change material for energy effective buildings**
SARI A., NAS M., YEŞİLATA B., Ustaoglu A., Erdoğmuş E., Torlaklı H., HEKİMOĞLU G., Gencil O.
Journal of Energy Storage, vol.87, 2024 (SCI-Expanded)
- IV. **Innovative cementitious mortar incorporated with sepiolite based shape-stable phase change material for thermal controlling of buildings**
TOPÇU İ. B., Bayram M., Ustaoglu A., HEKİMOĞLU G., Erdoğmuş E., SARI A., Gencil O., Ozbakkaloglu T.
Construction and Building Materials, vol.426, 2024 (SCI-Expanded)
- V. **Enhancing sustainability with waste hemp-shive and phase change material: Novel gypsum-based composites with advanced thermal energy storage properties**
Gencil O., GÜLER O., Ustaoglu A., Erdoğmuş E., SARI A., HEKİMOĞLU G., BOZTOPRAK Y., Subaşı S.
Journal of Cleaner Production, vol.451, 2024 (SCI-Expanded)
- VI. **Microencapsulated phase change material/wood fiber-starch composite as novel bio-based energy storage material for buildings**
Öztürk G., Temiz A., Hekimoğlu G., Aslan M., Köse Demirel G., Erdeyer Ö. N., Sarı A., Gencil O., Subaşı S.
Journal of Energy Storage, vol.84, 2024 (SCI-Expanded)
- VII. **Novel integration of recycled-hemihydrate phosphogypsum and ethyl palmitate in composite phase change material for building thermal regulation**
Kocyyigit Ş., GÜLER O., HEKİMOĞLU G., Ustaoglu A., Erdoğmuş E., SARI A., Gencil O., Ozbakkaloglu T.
Journal of Cleaner Production, vol.445, 2024 (SCI-Expanded)
- VIII. **A Novel Layered Double Hydroxide and Dodecyl Alcohol Assisted PCM Composite with High Latent Heat Storage Capacity and Thermal Conductivity**
Al-Ahmed A., SARI A., Khan F., Al-Rasheidi M., HEKİMOĞLU G., Afzaal M., Alsulami A. A., Dafalla H., Salhi B., Alsulaiman A. F.
JOURNAL OF THERMAL SCIENCE, vol.33, no.2, pp.537-547, 2024 (SCI-Expanded)
- IX. **3D-printed polylactic acid-microencapsulated phase change material composites for building thermal management**
Bayram M., Ustaoglu A., Kursuncu B., HEKİMOĞLU G., SARI A., Uğur L. O., Subasi S., Gencil O., Ozbakkaloglu T.
Renewable and Sustainable Energy Reviews, vol.191, 2024 (SCI-Expanded)
- X. **Characterisation and energy storage performance of 3D printed-photocurable resin/microencapsulated phase change material composite**
Er Y., GÜLER O., Ustaoglu A., HEKİMOĞLU G., SARI A., Subaşı S., Gencil O., Maraşlı M.
Thermal Science and Engineering Progress, vol.48, 2024 (SCI-Expanded)
- XI. **Effects of graphene doping on shape stabilization, thermal energy storage and thermal conductivity properties of PolyHIPE/PEG composites**
Kahraman Doğuşcu D., SARI A., HEKİMOĞLU G.
Journal of Energy Storage, vol.76, 2024 (SCI-Expanded)
- XII. **Thermal energy storage performance evaluation of bio-based phase change material/apricot kernel shell derived activated carbon in lightweight mortar**
Hekimoğlu G., Sarı A., Gencil O., Önal Y., Ustaoglu A., Erdogmus E., Harja M., Tyagi V.
JOURNAL OF ENERGY STORAGE, vol.73, 2023 (SCI-Expanded)
- XIII. **Thermophysical properties and solar thermal energy storage performance of phase change composites manufactured by vat photopolymerization 3D printing technique**

Er Y., Güler O., Hekimoğlu G., Nodehi M., Ustaoglu A., Sarı A., Gencil O., Ozbakkaloglu T.

JOURNAL OF ENERGY STORAGE, vol.73, 2023 (SCI-Expanded)

- XIV. **Fuel, cost, energy efficiency and CO₂ emission performance of PCM integrated wood fiber composite phase change material at different climates**
Frahhat N. B., Ustaoglu A., Gencil O., SARI A., HEKİMOĞLU G., Yaras A., Del Coz Díaz J. J.
SCIENTIFIC REPORTS, vol.13, no.1, 2023 (SCI-Expanded)
- 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.
Thermal Science and Engineering Progress, vol.46, 2023 (SCI-Expanded)
- XVI. **Shape stabilized microcrystalline cellulose/methyl stearate/graphene nanoplatelet composite with enriched thermal conductivity and thermal energy storage/release performance**
HEKİMOĞLU G., Çakır E., SARI A., Gencil O., Tyagi V., Sharma R.
CELLULOSE, vol.30, no.16, pp.10199-10214, 2023 (SCI-Expanded)
- XVII. **Thermal performance analysis of novel foam concrete composites with PCM for energy storage and environmental benefits in buildings**
Erdogmus E., Yaras A., Ustaoglu A., HEKİMOĞLU G., SARI A., Gencil O.
ENERGY AND BUILDINGS, vol.296, 2023 (SCI-Expanded)
- XVIII. **Expanded glass sphere/lauryl alcohol composite in gypsum: Physico-mechanical properties, energy storage performance and environmental impact assessment**
Ustaoglu A., Yaras A., HEKİMOĞLU G., Erdogmus E., SARI A., Gencil O.
SOLAR ENERGY, vol.262, 2023 (SCI-Expanded)
- XIX. **Microencapsulated phase change material incorporated light transmitting gypsum composite for thermal energy saving in buildings**
Gencil O., Bayram M., Subaşı S., HEKİMOĞLU G., SARI A., Ustaoglu A., Marasli M., Ozbakkaloglu T.
JOURNAL OF ENERGY STORAGE, vol.67, 2023 (SCI-Expanded)
- 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**
HEKİMOĞLU G., SARI A., Gencil O., Tyagi V., Sharma R.
THERMAL SCIENCE AND ENGINEERING PROGRESS, vol.44, 2023 (SCI-Expanded)
- XXI. **Thermal energy saving and physico-mechanical properties of foam concrete incorporating form-stabilized basalt powder/capric acid based composite phase change material**
Kocyyigit F., Bayram M., HEKİMOĞLU G., Cay V. V., Gencil O., Ustaoglu A., SARI A., Erdogmus E., Ozbakkaloglu T.
JOURNAL OF CLEANER PRODUCTION, vol.414, 2023 (SCI-Expanded)
- XXII. **Expanded waste glass/methyl palmitate/carbon nanofibers as effective shape stabilized and thermal enhanced composite phase change material for thermal energy storage**
Singh P., Sharma R., HEKİMOĞLU G., SARI A., Gencil O., Tyagi V.
JOURNAL OF ENERGY STORAGE, vol.64, 2023 (SCI-Expanded)
- XXIII. **Effect of carbon nanotube and microencapsulated phase change material utilization on the thermal energy storage performance in UV cured (photoinitiated) unsaturated polyester composites**
Subasi A., Subasi S., Bayram M., SARI A., HEKİMOĞLU G., Ustaoglu A., Gencil O., Ozbakkaloglu T.
JOURNAL OF ENERGY STORAGE, vol.61, 2023 (SCI-Expanded)
- XXIV. **Light transmitting glass fiber reinforced cementitious composite containing microencapsulated phase change material for thermal energy saving**
Gencil O., SARI A., Subasi S., Bayram M., Danish A., Marasli M., HEKİMOĞLU G., Ustaoglu A., Ozbakkaloglu T.
CONSTRUCTION AND BUILDING MATERIALS, vol.359, 2022 (SCI-Expanded)
- 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.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.21841-21855, 2022 (SCI-Expanded)

- XXVI. **Development and characterization a novel leakage-proof form stable composite of graphitic carbon nitride and fatty alcohol for thermal energy storage**
Singh P., Sharma R. K., Goyal R., HEKİMOĞLU G., SARI A., Rathore P. K. S., Tyagi V. V.
JOURNAL OF ENERGY STORAGE, vol.55, 2022 (SCI-Expanded)
- XXVII. **Characteristics, energy saving and carbon emission reduction potential of gypsum wallboard containing phase change material**
Yaras A., Ustaoglu A., Gencil O., SARI A., Hekimoglu G., Sutcu M., Erdogmus E., KAPLAN G., Bayraktar O. Y.
JOURNAL OF ENERGY STORAGE, vol.55, 2022 (SCI-Expanded)
- XXVIII. **Thermal energy storage characteristics of polyacrylic acid/dodecanol/carbon nanofiber composites as thermal conductive shape-stabilized composite phase change materials**
HEKİMOĞLU G., SARI A., Gencil O., Tyagi V. V.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.14, pp.20873-20885, 2022 (SCI-Expanded)
- XXIX. **Properties of eco-friendly foam concrete containing PCM impregnated rice husk ash for thermal management of buildings**
Gencil O., SARI A., KAPLAN G., Ustaoglu A., HEKİMOĞLU G., Bayraktar O. Y., Ozbakkaloglu T.
JOURNAL OF BUILDING ENGINEERING, vol.58, 2022 (SCI-Expanded)
- 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**
Gencil O., Subasi S., Ustaoglu A., SARI A., Marasli M., HEKİMOĞLU G., Kam E.
ENERGY, vol.257, 2022 (SCI-Expanded)
- XXXI. **The effect of limestone and bottom ash sand with recycled fine aggregate in foam concrete**
Gencil O., Balci B., Bayraktar O. Y., Nodehi M., SARI A., KAPLAN G., Hekimog G., Gholampour A., Benli A., Ozbakkaloglu T.
JOURNAL OF BUILDING ENGINEERING, vol.54, 2022 (SCI-Expanded)
- XXXII. **Thermal energy storage properties, thermal conductivity, chemical/and thermal reliability of three different organic phase change materials doped with hexagonal boron nitride**
Ouikhalfan M., SARI A., HEKİMOĞLU G., Gencil O., Tyagi V. V.
SURFACES AND INTERFACES, vol.32, 2022 (SCI-Expanded)
- XXXIII. **Properties of Scots pine wood impregnated with capric acid for potential energy saving building material**
Amini M. H. M., TEMİZ A., HEKİMOĞLU G., Demirel G., SARI A.
HOLZFORSCHUNG, vol.76, no.8, pp.744-753, 2022 (SCI-Expanded)
- XXXIV. **Glass fiber reinforced gypsum composites with microencapsulated PCM as novel building thermal energy storage material**
Gencil O., HEKİMOĞLU G., SARI A., Ustaoglu A., Subasi S., Marasli M., Erdogmus E., Memon S. A.
CONSTRUCTION AND BUILDING MATERIALS, vol.340, 2022 (SCI-Expanded)
- XXXV. **Activated carbon nanotube/polyacrylic acid/stearyl alcohol nanocomposites as thermal energy storage effective shape-stabilized phase change materials**
Goksu H., Aydinli E., HEKİMOĞLU G., SARI A., Gencil O., Subasi S., Tozluoglu A.
SURFACES AND INTERFACES, vol.31, 2022 (SCI-Expanded)
- XXXVI. **Foam Concrete Produced with Recycled Concrete Powder and Phase Change Materials**
Gencil O., Nodehi M., HEKİMOĞLU G., Ustaoglu A., SARI A., KAPLAN G., Bayraktar O. Y., Sutcu M., Ozbakkaloglu T.
SUSTAINABILITY, vol.14, no.12, 2022 (SCI-Expanded)
- 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**
SARI A., HEKİMOĞLU G., Karabayir Y., Sharma R. K., ARSLANOĞLU H., Gencil O., Tyagi V. V.
ENERGY, vol.247, 2022 (SCI-Expanded)
- XXXVIII. **Investigation of physico-mechanical, thermal properties and solar thermoregulation performance of shape-stable attapulgite based composite phase change material in foam concrete**

Gencil O, Ustaoglu A, Benli A, HEKİMOĞLU G, SARI A, Erdogmus E, Sutcu M, KAPLAN G, Bayraktar O. Y.
SOLAR ENERGY, vol.236, pp.51-62, 2022 (SCI-Expanded)

- XXXIX. **Bio-Based Phase Change Materials for Wooden Building Applications**
Palanti S, Temiz A, Köse Demirel G, Hekimoğlu G, Sarı A, Jebrane M, Schnabel T, Terziev N.
FORESTS, vol.13, no.4, pp.1-8, 2022 (SCI-Expanded)
- XL. **Metal Oxide Nanoparticle Dispersed-Polyethylene Glycol: Thermal Conductivity and Thermal Energy Storage Properties**
Ouikhalfan M, HEKİMOĞLU G, SARI A, Gencil O, Tyagi V. V.
ENERGY & FUELS, vol.36, no.5, pp.2821-2832, 2022 (SCI-Expanded)
- 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**
HEKİMOĞLU G, SARI A, ÖNAL Y, Gencil O, Tyagi V, Aslan E.
POWDER TECHNOLOGY, vol.401, 2022 (SCI-Expanded)
- XLII. **CuO Nanoparticle@Polystyrene Hierarchical Porous Foam for the Effective Encapsulation of Octadecanol as a Phase Changing Thermal Energy Storage Material**
Doguscu D. K, HEKİMOĞLU G, Sar A.
ENERGY & FUELS, vol.36, no.6, pp.3293-3303, 2022 (SCI-Expanded)
- 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**
Gencil O, Yaras A, HEKİMOĞLU G, Ustaoglu A, Erdogmus E, Sutcu M, Sari A.
ENERGY AND BUILDINGS, vol.258, 2022 (SCI-Expanded)
- XLIV. **Thermal conductivity enhancement of silica fume based composite thermal energy storage material using different carbon nanomaterials**
HEKİMOĞLU G, SARI A, Gencil O, Tyagi V. V.
Energy and Buildings, vol.257, 2022 (SCI-Expanded)
- XLV. **Production and characterization of natural clay-free green building brick materials using water treatment sludge and oak wood ash**
Harja M, Gencil O, SARI A, Sutcu M, Erdogmus E, HEKİMOĞLU G.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.22, no.2, 2022 (SCI-Expanded)
- XLVI. **Shape stabilized attapulgite/myristic-palmitic acid composite PCM for thermal energy storage implementations in buildings**
HEKİMOĞLU G, SARI A.
Materials Today: Proceedings, vol.58, pp.1350-1353, 2022 (SCI-Expanded)
- XLVII. **A review on phase change materials (PCMs) for thermal energy storage implementations**
HEKİMOĞLU G, SARI A.
MATERIALS TODAY : PROCEEDINGS, vol.58, pp.8, 2022 (SCI-Expanded)
- XLVIII. **Porous biochar/heptadecane composite phase change material with leak-proof, high thermal energy storage capacity and enhanced thermal**
HEKİMOĞLU G, SARI A, Arunachalam S, Arslanoglu H, Gencil O.
POWDER TECHNOLOGY, vol.394, pp.1017-1025, 2021 (SCI-Expanded)
- XLIX. **A novel energy-effective and carbon-emission reducing mortars with bottom ash and phase change material: Physico-mechanical and thermal energy storage characteristics**
Gencil O, HEKİMOĞLU G, SARI A, Sutcu M, Er Y, Ustaoglu A.
JOURNAL OF ENERGY STORAGE, vol.44, 2021 (SCI-Expanded)
- L. **Eco-friendly building materials containing micronized expanded vermiculite and phase change material for solar based thermo-regulation applications**
Gencil O, SARI A, Ustaoglu A, HEKİMOĞLU G, Erdogmus E, Yaras A, Sutcu M, Cay V. V.
CONSTRUCTION AND BUILDING MATERIALS, vol.308, 2021 (SCI-Expanded)
- LI. **High internal phase emulsion templated-polystyrene/carbon nano fiber/hexadecanol composites**

phase change materials for thermal management applications

Doguscu D. K., HEKİMOĞLU G., SARI A.

JOURNAL OF ENERGY STORAGE, vol.39, 2021 (SCI-Expanded)

- LII. **Carbonized waste hazelnut wood-based shape-stable composite phase change materials for thermal management implementations**
HEKİMOĞLU G., SARI A., Kar T., KELEŞ S., KAYGUSUZ K., YILDIRIM N., Tyagi V. V., Sharma R. K., Saleh T. A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.7, pp.10271-10284, 2021 (SCI-Expanded)
- LIII. **Microencapsulated heptadecane with calcium carbonate as thermal conductivity-enhanced phase change material for thermal energy storage**
SARI A., Saleh T. A., HEKİMOĞLU G., Tyagi V. V., Sharma R. K.
JOURNAL OF MOLECULAR LIQUIDS, vol.328, 2021 (SCI-Expanded)
- LIV. **Silica fume/capric acid-stearic acid PCM included-cementitious composite for thermal controlling of buildings: Thermal energy storage and mechanical properties**
HEKİMOĞLU G., NAS M., Ouikhalfan M., SARI A., Tyagi V., Sharma R., KURBETÇİ Ş., Saleh T. A.
ENERGY, vol.219, 2021 (SCI-Expanded)
- LV. **Walnut shell derived bio-carbon/methyl palmitate as novel composite phase change material with enhanced thermal energy storage properties**
HEKİMOĞLU G., SARI A., Kar T., KELEŞ S., KAYGUSUZ K., Tyagi V., Sharma R., Al-Ahmed A., Al-Sulaiman F. A., Saleh T. A.
JOURNAL OF ENERGY STORAGE, vol.35, 2021 (SCI-Expanded)
- 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**
HEKİMOĞLU G., NAS M., Ouikhalfan M., SARI A., KURBETÇİ Ş., Tyagi V. V., Sharma R. K., Saleh T. A.
CONSTRUCTION AND BUILDING MATERIALS, vol.274, 2021 (SCI-Expanded)
- LVII. **Fly Ash/Octadecane Shape-Stabilized Composite PCMs Doped with Carbon-Based Nanoadditives for Thermal Regulation Applications**
HEKİMOĞLU G., SARI A.
ENERGY & FUELS, vol.35, no.2, pp.1786-1795, 2021 (SCI-Expanded)
- LVIII. **Phase change material impregnated wood for passive thermal management of timber buildings**
TEMİZ A., HEKİMOĞLU G., KÖSE DEMİREL G., SARI A., Mohamad Amini M. H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.13, pp.10495-10505, 2020 (SCI-Expanded)
- 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**
Al-Ahmed A., Sari A., Mazumder M. A. J., Salhi B., Hekimoglu G., Al-Sulaiman F. A., Inamuddin I.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)
- 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**
SARI A., HEKİMOĞLU G., Tyagi V., Sharma R.
ENERGY, vol.207, 2020 (SCI-Expanded)
- 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**
Sharma R. K., SARI A., HEKİMOĞLU G., Zahir M. H., Tyagi V. V.
ENERGY & FUELS, vol.34, no.7, pp.9011-9019, 2020 (SCI-Expanded)
- LXII. **Thermal energy storage and thermal conductivity properties of Octadecanol-MWCNT composite PCMs as promising organic heat storage materials**
Al-Ahmed A., Sari A., Mazumder M. A. J., HEKİMOĞLU G., Al-Sulaiman F. A., Inamuddin I.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)
- LXIII. **Form-Stabilized Polyethylene Glycol/Palygorskite Composite Phase Change Material: Thermal Energy Storage Properties, Cycling Stability, and Thermal Durability**
SARI A., Ouikhalfan M., Chehouani H., HEKİMOĞLU G., BİÇER A., Al-Ahmed A., Al-Sulaiman F. A., Tyagi V. V.

POLYMER ENGINEERING AND SCIENCE, vol.60, no.5, pp.909-916, 2020 (SCI-Expanded)

- LXIV. **Low cost and eco-friendly wood fiber-based composite phase change material: Development, characterization and lab-scale thermoregulation performance for thermal energy storage**
SARI A., HEKİMOĞLU G., Tyagi V. V.
ENERGY, vol.195, 2020 (SCI-Expanded)
- LXV. **Evaluation of carbonized waste tire for development of novel shape stabilized composite phase change material for thermal energy storage**
SARI A., Saleh T. A., HEKİMOĞLU G., Tuzen M., Tyagi V. V.
WASTE MANAGEMENT, vol.103, pp.352-360, 2020 (SCI-Expanded)
- LXVI. **Investigation of thermal properties and enhanced energy storage/release performance of silica fume/myristic acid composite doped with carbon nanotubes**
SARI A., Al-Ahmed A., BİÇER A., Al-Sulaiman F. A., HEKİMOĞLU G.
RENEWABLE ENERGY, vol.140, pp.779-788, 2019 (SCI-Expanded)
- LXVII. **Preparation, characterization, thermal energy storage properties and temperature control performance of form-stabilized sepiolite based composite phase change materials**
SARI A., Sharma R. K., HEKİMOĞLU G., Tyagi V. V.
ENERGY AND BUILDINGS, vol.188, pp.111-119, 2019 (SCI-Expanded)
- LXVIII. **Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material**
SARI A., BİÇER A., HEKİMOĞLU G.
JOURNAL OF COMPOSITE MATERIALS, vol.0, pp.1-14, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **TERMAL ENERJİ DEPOLAMADA FAZ DEĞİŞTİREN MADDELERİN ODUN KOMPOZİTLERİNDE KULLANILABİLİRLİĞİ**
Öztürk G., Temiz A., Hekimoğlu G., Köse Demirel G., Aslan M., Sarı A.
IV. Ulusal Karadeniz Ormancılık Kongresi, Trabzon, Turkey, 6 - 09 December 2021, pp.34
- II. **ENERJİ DEPOLAMADA FAZ DEĞİŞTİREN MADDELERİN AHŞAP MALZEMEDE KULLANILMASI**
Erdeyer Ö. N., Temiz A., Hekimoğlu G., Köse Demirel G., Sarı A.
IV. Ulusal Karadeniz Ormancılık Kongresi, Trabzon, Turkey, 6 - 09 December 2021, pp.28
- III. **Termal Enerji Depolamada Faz Değişiren Maddelerin Odun Kompozitlerinde Kullanılabilirliği**
Öztürk G., TEMİZ A., HEKİMOĞLU G., KÖSE DEMİREL G., ASLAN M., SARI A.
IV. Ulusal Karadeniz Ormancılık Kongresi, 06 December 2021
- IV. **Fly Ash Based-Composite Phase Change Material for Thermal Energy Storage in Buildings**
SARI A., HEKİMOĞLU G.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.140-143
- V. **Clay/Polymer Composite Phase Change Material for Thermoregulation of Buildings**
SARI A., Biçer A., HEKİMOĞLU G., Ouikhaalfan M.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.136-139
- VI. **ATTAPULGITE/FATTY ACID EUTECTIC MIXTURE AS FORMSTABLEBUILDING COMPOSITE FOR THERMAL ENERGY STORAGE**
Sarı A., Biçer A., Hekimoğlu G., Ouikhaalfan M.
IV. International Ege Composite Materials Symposium (KOMPEGE2018), İzmir, Turkey, 6 - 08 September 2018, pp.210-219
- VII. **Form-Stable Attapulgit/PCM Composite For Thermal Energy Storage in Building Envelopes**
SARI A., HEKİMOĞLU G., Biçer A.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March

2018, pp.186-189

VIII. **Thermal Energy Storage Properties of Vermiculite Based-Composite PCM with Carbon Nanotubes Additive for Thermoregulation of Buildings**

Sarı A., HEKİMOĞLU G., Biçer a.

1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 - 24 March 2018, pp.182-185

Supported Projects

SARI A., GÜLER O., KOCAMAN M., AKÇAY S. B., ÇAKIR E., ÇANAKÇI A., ALVER Ü., ÇUVALCI H., VAROL T., ASLAN M., et al., Project Supported by Higher Education Institutions, MetalGenleştirilmiş GrafitKarbonize edilmiş Polimer Köpük Kompozit Faz Değiştiren Malzemelerinin Isıl Enerji Depolama Amaçlı Geliştirilmesi, 2022 - Continues

SARI A., HEKİMOĞLU G., SARI S., Project Supported by Higher Education Institutions, Karbon Tabanlı Kompozit Faz Değişim Malzemelerinin Üretimi Karakterizasyonu Ve Isıl Enerji Depolama Özelliklerinin İncelenmesi, 2022 - Continues
Hekimoğlu G., Horizon Europe Project, BioBased Phase Changes Materials in Lignocellulose Matrix for Energy Store in Buildings. ERA-NET Smart Energy Systems, 2020 - 2024

VAROL T., ÇUVALCI H., BAYKAL S., DURAN C., ÇANAKÇI A., SARI A., ALTINTAŞ S. H., PÜRÇEK G., GEDİKLİ H., ÇUVALCI O., et al., Project Supported by Higher Education Institutions, Biyomedikal ve İleri Mühendislik Malzemelerinin Seçici Lazer Ergitme Yöntemi İle Üretimi, 2020 - 2023

SARI A., HEKİMOĞLU G., Project Supported by Higher Education Institutions, Karbon Esaslı Malzemelerin Faz Değişimi Yoluyla Enerji Depolayan Yapı Kompozitlerinin Isıl Özelliklerine Etkisinin İncelenmesi, 2017 - 2019

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