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Kişisel Bilgiler

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ScopusID: 7006342950

Yoksis Araştırmacı ID: 1872

Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, -, Kimya, Türkiye 1996 - 2000

Yüksek Lisans, Karadeniz Teknik Üniversitesi, -, Kimya, Türkiye 1994 - 1996

Lisans, Karadeniz Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 1989 - 1993

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Bazı Yağ Asitleri ve Ötektik Karışımlarının Enerji Depolayıcı Madde Olarak Kullanılabilirliğinin İncelenmesi, Gaziosman Paşa Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2000

Yüksek Lisans, Enerji Depolama Sisteminin Performansının Hesaplanması İçin Enerji ve Ekserji Analizi, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 1996

Araştırma Alanları

Kimya, Fizikokimya, Fonksiyonel Polimerler, Kimyasal Kinetik, Kompozitler, Nanokompozitler, Polimerik Malzemeler, Termodinamik, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2015 - Devam Ediyor

Prof. Dr., Gaziosman Paşa Üniversitesi, Fen Edebiyat, Kimya, 2010 - 2015

Doç. Dr., Gaziosman Paşa Üniversitesi, Fen Edebiyat, Kimya, 2004 - 2010

Yrd. Doç. Dr., Gaziosman Paşa Üniversitesi, Fen Edebiyat, Kimya, 2000 - 2004

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Phase change material incorporated paper pulp sludge/gypsum composite reinforced by slag and fly ash for energy efficient buildings: Solar thermal regulation, embody energy, sustainability index and cost analysis**
Kucukdogan N., Sutcu M., Ozturk S., Yaprak H., Memis S., Gencel O., Ustaoglu A., SARI A., HEKİMOĞLU G., Erdogmus E. Energy and Buildings, cilt.325, 2024 (SCI-Expanded)
- II. **Sustainable polyurethane biocomposite foams by improved microstructure, acoustic characteristics, thermoregulation performance and reduced CO2 emission through phase change material integration**
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- III. **Hazelnut shell-based activated carbon/carbon nanotubes/palmityl alcohol as new form-stable phase change material with enhanced energy storage capacity and thermal conductivity**
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- IV. **Properties of foam concrete containing phase change material impregnated pumice**
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- V. **Adsorption of bromophenol blue from aquatic media using polymer-modified silica fume: Factorial design optimization, kinetic evaluation and adsorption mechanism**
Khan Rind I., SARI A., Tuzen M., Saleh T. A. Inorganic Chemistry Communications, cilt.168, 2024 (SCI-Expanded)
- VI. **Energy- efficient cementitious mortar containing clay based shape-stable phase change material: Development, characterization and temperature controlling performance**
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- VII. **Nano-enhanced phase change materials: Fundamentals and applications**
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- VIII. **Advancing thermal control in buildings with innovative cementitious mortar and recycled expanded glass/n-octadecane phase change material composites**
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- IX. **Evaluation of carbonized cotton stalk for development of novel form stable composite phase change materials for solar thermal energy storage**
Gowthami D., Sharma R., Ansu A., SARI A., Tyagi V., Rathore P. Process Safety and Environmental Protection, cilt.188, ss.1037-1048, 2024 (SCI-Expanded)
- X. **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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- XI. **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., Gencel O. Materials Today Sustainability, cilt.26, 2024 (SCI-Expanded)
- XII. **A novel cement mortar comprising natural zeolite/dodecyl alcohol shape stable composite phase**

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- XIII. **Innovative cementitious mortar incorporated with sepiolite based shape-stable phase change material for thermal controlling of buildings**
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- XIV. **Magnetic nanoparticles loaded hydrochar for effective Cr(VI) removal from water: Batch and column studies**
Rind I. K., Memon N., SARI A., Khuhawar M. Y., Tuzen M., Naveed ul Hasan S., Memon A. A., Soomro W. A., Zaman Brohi R. O., Saleh T. A.
Materials Chemistry and Physics, cilt.318, 2024 (SCI-Expanded)
- XV. **Microencapsulated phase change material/wood fiber-starch composite as novel bio-based energy storage material for buildings**
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- XVI. **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.
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- XVII. **Development of a novel form-stable phase change material based on alkali activated date seed biochar to harvest solar thermal energy**
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- XVIII. **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.
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- XIX. **A Novel Layered Double Hydroxide and Dodecyl Alcohol Assisted PCM Composite with High Latent Heat Storage Capacity and Thermal Conductivity**
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- XX. **Influential adsorption of Congo red using vermiculite/graphene/polyacrylamide composite**
Rind I. K., SARI A., Tuzen M., Saleh T. A.
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- XXI. **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.
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- XXII. **Effects of graphene doping on shape stabilization, thermal energy storage and thermal conductivity properties of PolyHIPE/PEG composites**
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- XXIII. **Simultaneous removal of polyaromatic hydrocarbons from water using polymer modified carbon**
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- XXIV. **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.

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- XXV. **Influential antimony removal from Aquatic Solution using Graphene Nanoplatelet/*Staphylococcus aureus* as Novel Composite Adsorbent**
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- XXVI. **Comparative exergoeconomic analysis of single, two and three stage spray drying systems**
Singh G., Tyagi V., Pandey A., Goel V., SARI A.
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- XXVII. **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.
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- XXVIII. **Factorial design, physical studies and rapid arsenic adsorption using newly prepared polymer modified perlite adsorbent**
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- XXIX. **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.
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- XXX. **Glass fiber reinforced gypsum composites with microencapsulated PCM as novel building thermal energy storage material**
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CONSTRUCTION AND BUILDING MATERIALS, cilt.340, 2022 (SCI-Expanded)
- XXXI. **A critical overview of upstream cultivation and downstream processing of algae-based biofuels: Opportunity, technological barriers and future perspective**
Ahmad S., Iqbal K., Kothari R., Singh H. M., SARI A., Tyagi V.
Journal of Biotechnology, cilt.351, ss.74-98, 2022 (SCI-Expanded)
- XXXII. **Effect of simultaneous & consecutive melting/solidification of phase change material on domestic solar water heating system**
Chopra K., Tyagi V., Pandey A., Popli S., Singh G., Sharma R., SARI A.
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- XXXIII. **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.
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- XXXIV. **Utilization of Chlorella pyrenoidosa for Remediation of Common Effluent Treatment Plant Wastewater in Coupling with Co-relational Study: An Experimental Approach**
Kothari R., Pandey A., Ahmad S., Singh H. M., Pathak V. V., Tyagi V. V., Kumar K., SARI A.
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- XXXV. **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.
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- XXXVI. **Metal Oxide Nanoparticle Dispersed-Polyethylene Glycol: Thermal Conductivity and Thermal Energy Storage Properties**
Ouikhalfan M., HEKİMOĞLU G., SARI A., Gencil O., Tyagi V. V.
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- XXXVII. **Thermal conductivity enhancement of silica fume based composite thermal energy storage material**

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- XXXVIII. **Synthesis of carbon modified with polymer of diethylenetriamine and trimesoyl chloride for the dual removal of Hg (II) and methyl mercury ([CH₃Hg]⁺) from wastewater: Theoretical and experimental analyses**

Tuzen M., SARI A., Afshar Mogaddam M. R., KAYA S., Katin K., ALTUNAY N.

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- XXXIX. **Production and characterization of natural clay-free green building brick materials using water treatment sludge and oak wood ash**

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- XL. **Cultivation of two Chlorella species in Open sewage contaminated channel wastewater for biomass and biochemical profiles: Comparative lab-scale approach**

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- XLI. **Shape stabilized attapulgite/myristic-palmitic acid composite PCM for thermal energy storage implementations in buildings**

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- XLII. **A review on phase change materials (PCMs) for thermal energy storage implementations**

HEKİMOĞLU G., SARI A.

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- XLIII. **A comprehensive review on phase change materials for heat storage applications: Development, characterization, thermal and chemical stability**

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- XLIV. **Novel approach for harvesting of microalgal biomass using electric geyser waste material deposit as flocculant in coupling with poultry excreta leachate**

Singh H. M., Tyagi V. V., Kothari R., Azam R., Khare P., SARI A.

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- XLV. **Evaluation of poly(ethylene diamine-trimesoyl chloride)-modified diatomite as efficient adsorbent for removal of rhodamine B from wastewater samples**

Saleh T. A., Tuzen M., SARI A.

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- XLVI. **Phase change material based advance solar thermal energy storage systems for building heating and cooling applications: A prospective research approach**

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SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.47, 2021 (SCI-Expanded)

- XLVII. **Carbonized waste hazelnut wood-based shape-stable composite phase change materials for thermal management implementations**

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- XLVIII. **A comprehensive review on development of eutectic organic phase change materials and their composites for low and medium range thermal energy storage applications**

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- XLIX. **Experimental investigation of microalgal harvesting with low cost bottom ash: Influence of temperature and pH with zeta potential and thermodynamic function**

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ENVIRONMENTAL TECHNOLOGY & INNOVATION, cilt.22, 2021 (SCI-Expanded)

- L. **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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CONSTRUCTION AND BUILDING MATERIALS, cilt.274, 2021 (SCI-Expanded)
- LI. **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., KURBETCİ Ş., Saleh T. A.
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- LII. **Effects of carbon-based fillers on thermal properties of fatty acids and their eutectics as phase change materials used for thermal energy storage: A Review**
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- LIII. **Walnut shell derived bio-carbon/methyl palmitate as novel composite phase change material with enhanced thermal energy storage properties**
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- LIV. **Facile synthesis of zinc oxide nanoparticles loaded activated carbon as an eco-friendly adsorbent for ultra-removal of malachite green from water**
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- LV. **Phase change material impregnated wood for passive thermal management of timber buildings**
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.44, sa.13, ss.10495-10505, 2020 (SCI-Expanded)
- LVI. **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.
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- LVII. **Form-Stabilized Polyethylene Glycol/Palygorskite Composite Phase Change Material: Thermal Energy Storage Properties, Cycling Stability, and Thermal Durability**
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- LVIII. **A cycling study for reliability, chemical stability and thermal durability of polyethylene glycols of molecular weight 2000 and 10000 as organic latent heat thermal energy storage materials**
Ansu A. K., Sharma R. K., Tyagi V. V., SARI A., Ganesan P., Tripathi D.
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- LIX. **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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- LX. **Carbon nanotubes grafted with poly(trimesoyl, m-phenylenediamine) for enhanced removal of phenol**
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- LXI. **Magnetic vermiculite-modified by poly(trimesoyl chloride-melamine) as a sorbent for enhanced removal of bisphenol A**
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- LXII. **Preparation and characterization of nano-enhanced myristic acid using metal oxide nanoparticles for thermal energy storage**
Ouikhalfan M., SARI A., Chehouani H., Benhamou B., Bicer A.

- INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.43, sa.14, ss.8592-8607, 2019 (SCI-Expanded)
- LXIII. **Experimental performance evaluation of a novel designed phase change material integrated manifold heat pipe evacuated tube solar collector system**
Chopra K., Tyagi V. V., Pathak A. K., Pandey A. K., SARI A.
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- LXIV. **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.
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- LXV. **Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material**
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- LXVI. **Efficacy of chemical shift MRI for differentiating diffuse red bone marrow reconversion and hematological malignancies**
Akman B., Ata Korkmaz H. A., SARI A.
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- LXVII. **Thermal energy storage characteristics of myristic acid-palmitic eutectic mixtures encapsulated in PMMA shell**
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- LXVIII. **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.
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- LXIX. **Poly(styrene-co-maleic anhydride)-graft-fatty acids as novel solid-solid PCMs for thermal energy storage**
SARI A., BİÇER A., ALKAN C.
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- LXX. **Preparation, characterization and evaluation of bio-based magnetic activated carbon for effective adsorption of malachite green from aqueous solution**
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- LXXI. **Global advancement on experimental and thermal analysis of evacuated tube collector with and without heat pipe systems and possible applications**
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- LXXII. **Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material**
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- LXXIII. **Effective uranium biosorption by macrofungus (*Russula sanguinea*) from aqueous solution: equilibrium, thermodynamic and kinetic studies**
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- LXXIV. **Thermodynamics and Kinetics of Biosorption of Vanadium with Macrofungus (*Hypholoma fasciculare*) and Determination by GFAAS**
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- LXXV. **Silica fume/capric acid-palmitic acid composite phase change material doped with CNTs for thermal energy storage**

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