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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: JVZ-5663-2024

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. **Properties of foam concrete containing phase change material impregnated pumice**
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- II. **Adsorption of bromophenol blue from aquatic media using polymer-modified silica fume: Factorial design optimization, kinetic evaluation and adsorption mechanism**
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- III. **Energy- efficient cementitious mortar containing clay based shape-stable phase change material: Development, characterization and temperature controlling performance**
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- IV. **Advancing thermal control in buildings with innovative cementitious mortar and recycled expanded glass/n-octadecane phase change material composites**
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- V. **Nano-enhanced phase change materials: Fundamentals and applications**
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- VI. **Evaluation of carbonized cotton stalk for development of novel form stable composite phase change materials for solar thermal energy storage**
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- VII. **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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- VIII. **Physico-mechanical properties and thermal monitoring performance of thermal enhanced cement slurry-coated LWAs containing microencapsulated phase change material**
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- IX. **A novel cement mortar comprising natural zeolite/dodecyl alcohol shape stable composite phase change material for energy effective buildings**
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- X. **Innovative cementitious mortar incorporated with sepiolite based shape-stable phase change material for thermal controlling of buildings**
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- XI. **Magnetic nanoparticles loaded hydrochar for effective Cr(VI) removal from water: Batch and column studies**
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- XII. **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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- XIII. **Microencapsulated phase change material/wood fiber-starch composite as novel bio-based energy storage material for buildings**
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- XIV. **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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- XV. **Novel integration of recycled-hemihydrate phosphogypsum and ethyl palmitate in composite phase change material for building thermal regulation**
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- XVI. **A Novel Layered Double Hydroxide and Dodecyl Alcohol Assisted PCM Composite with High Latent Heat Storage Capacity and Thermal Conductivity**
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- XVII. **Influential adsorption of Congo red using vermiculite/graphene/polyacrylamide composite**
Rind I. K., SARI A., Tuzen M., Saleh T. A.
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- XVIII. **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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- XIX. **Effects of graphene doping on shape stabilization, thermal energy storage and thermal conductivity properties of PolyHIPE/PEG composites**
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- XX. **Simultaneous removal of polyaromatic hydrocarbons from water using polymer modified carbon**
Saleh T. A., SARI A., Tuzen M.
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- XXI. **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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- XXII. **Influential antimony removal from Aquatic Solution using Graphene Nanoplatelet/ *Staphylococcus aureus* as Novel Composite Adsorbent**
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- XXIII. **Comparative exergoeconomic analysis of single, two and three stage spray drying systems**
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- XXIV. **The effect of limestone and bottom ash sand with recycled fine aggregate in foam concrete**
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- XXV. **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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- XXVI. **Glass fiber reinforced gypsum composites with microencapsulated PCM as novel building thermal energy storage material**
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- XXVII. **Factorial design, physical studies and rapid arsenic adsorption using newly prepared polymer modified perlite adsorbent**
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Chemical Engineering Research and Design, cilt.183, ss.181-191, 2022 (SCI-Expanded)
- XXVIII. **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.
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- XXIX. **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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- XXX. **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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- XXXI. **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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- XXXII. **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, cilt.36, sa.5, ss.2821-2832, 2022 (SCI-Expanded)
- XXXIII. **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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- XXXIV. **Thermal conductivity enhancement of silica fume based composite thermal energy storage material using different carbon nanomaterials**
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- XXXV. **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.
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- XXXVI. **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**
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- XXXVII. **Cultivation of two Chlorella species in Open sewage contaminated channel wastewater for biomass and biochemical profiles: Comparative lab-scale approach**

- Azam R., Kothari R., Singh H. M., Ahmad S., SARI A., Tyagi V.
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- XXXVIII. **A comprehensive review on phase change materials for heat storage applications: Development, characterization, thermal and chemical stability**
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- XXXIX. **A review on phase change materials (PCMs) for thermal energy storage implementations**
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- XL. **Shape stabilized attapulgite/myristic-palmitic acid composite PCM for thermal energy storage implementations in buildings**
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- XLI. **Novel approach for harvesting of microalgal biomass using electric geyser waste material deposit as flocculant in coupling with poultry excreta leachate**
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- XLII. **Evaluation of poly(ethylene diamine-trimesoyl chloride)-modified diatomite as efficient adsorbent for removal of rhodamine B from wastewater samples**
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- XLIII. **Phase change material based advance solar thermal energy storage systems for building heating and cooling applications: A prospective research approach**
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- XLIV. **Carbonized waste hazelnut wood-based shape-stable composite phase change materials for thermal management implementations**
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.45, sa.7, ss.10271-10284, 2021 (SCI-Expanded)
- XLV. **A comprehensive review on development of eutectic organic phase change materials and their composites for low and medium range thermal energy storage applications**
Singh P., Sharma R. K., Ansu A. K., Goyal R., SARI A., Tyagi V. V.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.223, 2021 (SCI-Expanded)
- XLVI. **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)
- XLVII. **Walnut shell derived bio-carbon/methyl palmitate as novel composite phase change material with enhanced thermal energy storage properties**
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JOURNAL OF ENERGY STORAGE, cilt.35, 2021 (SCI-Expanded)
- XLVIII. **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.
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- XLIX. **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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- L. **Thermal management performance and mechanical properties of a novel cementitious composite**

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- L.I. **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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- L.II. **Phase change material impregnated wood for passive thermal management of timber buildings**
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- L.III. **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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- L.IV. **Form-Stabilized Polyethylene Glycol/Palygorskite Composite Phase Change Material: Thermal Energy Storage Properties, Cycling Stability, and Thermal Durability**
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- L.V. **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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- L.VI. **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**
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- L.VII. **Carbon nanotubes grafted with poly(trimesoyl, m-phenylenediamine) for enhanced removal of phenol**
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- L.VIII. **Magnetic vermiculite-modified by poly(trimesoyl chloride-melamine) as a sorbent for enhanced removal of bisphenol A**
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- L.IX. **Preparation and characterization of nano-enhanced myristic acid using metal oxide nanoparticles for thermal energy storage**
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- L.X. **Experimental performance evaluation of a novel designed phase change material integrated manifold heat pipe evacuated tube solar collector system**
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- L.XI. **Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material**
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- L.XII. **Investigation of thermal properties and enhanced energy storage/release performance of silica fume/myristic acid composite doped with carbon nanotubes**
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- L.XIII. **Efficacy of chemical shift MRI for differentiating diffuse red bone marrow reconversion and**

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- LXIV. **Thermal energy storage characteristics of myristic acid-palmitic eutectic mixtures encapsulated in PMMA shell**
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- LXV. **Preparation, characterization, thermal energy storage properties and temperature control performance of form-stabilized sepiolite based composite phase change materials**
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- LXVI. **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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- LXVII. **Preparation, characterization and evaluation of bio-based magnetic activated carbon for effective adsorption of malachite green from aqueous solution**
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- LXVIII. **Global advancement on experimental and thermal analysis of evacuated tube collector with and without heat pipe systems and possible applications**
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- LXIX. **Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material**
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- LXX. **Effective uranium biosorption by macrofungus (*Russula sanguinea*) from aqueous solution: equilibrium, thermodynamic and kinetic studies**
BAĞDA E., SARI A., TÜZEN M.
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- LXXI. **Thermodynamics and Kinetics of Biosorption of Vanadium with Macrofungus (*Hypholoma fasciculare*) and Determination by GFAAS**
BAĞDA E., TÜZEN M., SARI A., Shemsi A. M., Bukhari A. A.
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- LXXII. **Silica fume/capric acid-palmitic acid composite phase change material doped with CNTs for thermal energy storage**
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- LXXIII. **Diatomite/CNTs/PEG composite PCMs with shape-stabilized and improved thermal conductivity: Preparation and thermal energy storage properties**
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- LXXIV. **Polyamide magnetic palygorskite for the simultaneous removal of Hg(II) and methyl mercury; with factorial design analysis**
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- LXXV. **Novel approaches and recent developments on potential applications of phase change materials in solar energy**
Pandey A. K., Hossain M. S., Tyagi V. V., Abd Rahim N., Selvaraj J. A. L., SARI A.
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- LXXVI. **Microencapsulated n-alkane eutectics in polystyrene for solar thermal applications**
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Metrikler

Yayın: 161

Atıf (WoS): 6706

Atıf (Scopus): 7262

H-İndeks (WoS): 42

H-İndeks (Scopus): 42

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Gaziosmanpaşa Üniversitesi