

Prof. Dr. AHMET SARI

Kişisel Bilgiler

İş Telefonu: [+90 462 377 3000](tel:+904623773000) Dahili: 3644

E-posta: ahmet.sari@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr/ahmet.sari>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-7452-083X

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

AKADEMİK İDARI DENEYİM

Gaziosman Paşa Üniversitesi, 2012 - 2015

Gaziosman Paşa Üniversitesi, Fen Bilimleri Enstitüsü, 2005 - 2010

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Wood flour/-poly(methyl methacrylate)/capric acid polymer composites as form-stable phase change materials for thermal energy management**
Can A., Gencel O., SARI A., HEKİMOĞLU G.
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- II. **A comprehensive review on advanced trends in treatment technologies for removal of Bisphenol A from aquatic media**
Waleed S., Haroon M., Ullah N., Tuzen M., Rind I. K., SARI A.
Environmental Monitoring and Assessment, cilt.197, sa.1, 2025 (SCI-Expanded)
- III. **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.
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- IV. **Hazelnut shell-based activated carbon/carbon nanotubes/palmityl alcohol as new form-stable phase change material with enhanced energy storage capacity and thermal conductivity**
Gu X., Huseien G. F., KAR T., SARI A., Karaahmet Z., Gencel O., HEKİMOĞLU G., ÇAKIR E.
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- V. **Sustainable polyurethane biocomposite foams by improved microstructure, acoustic characteristics, thermoregulation performance and reduced CO2 emission through phase change material integration**
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- VI. **Properties of foam concrete containing phase change material impregnated pumice**
Kam E., Yaraş A., Ustaoglu A., HEKİMOĞLU G., SARI A., Erdoğmuş E., Gencel O.
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- VII. **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)
- VIII. **Energy- efficient cementitious mortar containing clay based shape-stable phase change material: Development, characterization and temperature controlling performance**
Bayram M., Gencel O., SARI A., Ahmed A., Zami M. S., Erdogmus E., HEKİMOĞLU G., Ustaoglu A., Ozbakkaloglu T.
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- IX. **Advancing thermal control in buildings with innovative cementitious mortar and recycled expanded glass/n-octadecane phase change material composites**
Yaraş A., Bayram M., Ustaoglu A., Erdoğmuş E., HEKİMOĞLU G., SARI A., Gencel O., Tyagi V., Ozbakkaloglu T.
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- X. **Nano-enhanced phase change materials: Fundamentals and applications**
Said Z., Pandey A., Tiwari A. K., Kalidasan B., Jamil F., Thakur A. K., Tyagi V., SARI A., Ali H. M.
Progress in Energy and Combustion Science, cilt.104, 2024 (SCI-Expanded)
- XI. **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)
- XII. **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., Hekimoğlu G., Ustaoglu A., Sarı A., Subaşı S., Maraşlı M., Gencil O.

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- XIII. **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.
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- XIV. **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.
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- XV. **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.
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- XVI. **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.
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- XVII. **Microencapsulated phase change material/wood fiber-starch composite as novel bio-based energy storage material for buildings**
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- XVIII. **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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- XIX. **Development of a novel form-stable phase change material based on alkali activated date seed biochar to harvest solar thermal energy**
Gowthami D., Sharma R., Tyagi V., Rathore P. K. S., SARI A.
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- XX. **Novel integration of recycled-hemihydrate phosphogypsum and ethyl palmitate in composite phase change material for building thermal regulation**
Kocyigit Ş., GÜLER O., HEKİMOĞLU G., Ustaoglu A., Erdoğmuş E., SARI A., Gencil O., Ozbakkaloglu T.
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- XXI. **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.
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- XXII. **Influential adsorption of Congo red using vermiculite/graphene/polyacrylamide composite**
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- XXIII. **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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- XXIV. **Effects of graphene doping on shape stabilization, thermal energy storage and thermal conductivity properties of PolyHIPE/PEG composites**
Kahraman Döğüşcü D., SARI A., HEKİMOĞLU G.

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- XXV. **Simultaneous removal of polyaromatic hydrocarbons from water using polymer modified carbon**
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- XXVI. **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, cilt.73, 2023 (SCI-Expanded)
- XXVII. **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.
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- XXVIII. **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.
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- XXIX. **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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- XXX. **Synthesis of graphene/silica composites and its removal efficiency of methylene blue dye from water**
Khan Rind I., SARI A., Tuzen M., Lanjwani M. F., Saleh T. A.
INORGANIC CHEMISTRY COMMUNICATIONS, cilt.158, 2023 (SCI-Expanded)
- XXXI. **Bacteria immobilized onto carbon nanofiber as a composite for effective removal of arsenic from wastewater**
Khan Rind I., SARI A., Tuzen M., Farooque Lanjwani M., Karaman I., Saleh T. A.
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- XXXII. **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, cilt.30, sa.16, ss.10199-10214, 2023 (SCI-Expanded)
- XXXIII. **Effect of molding pressure and firing temperature on the properties of ceramics from natural zeolite**
Erdogmus E., Sutcu M., Hossain S., Bayram M., SARI A., Gencil O., Ozbakkaloglu T.
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- XXXIV. **The use of computerized tomography (CT) and image processing for evaluation of the properties of foam concrete produced with different content of foaming agent and aggregate**
Gencil O., Nodehi M., Bozkurt A., SARI A., Ozbakkaloglu T.
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- XXXV. **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.
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- XXXVI. **Synthesis of bentonite/SiO₂/magnetite nanostructure as an efficient adsorbent for Bisphenol A removal from waters**
Rind I. K., SARI A., Tuzen M., Lanjwani M. F., Saleh T. A.
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- XXXVII. **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.
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- XXXVIII. **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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- XXXIX. **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.
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- XL. **Solar heat pipe ETC integrated with solar still system for water treatment and hot water production: novel hybrid experimental approach**
Pathak A. K., Chopra K., Tyagi V., Anand S., Kothari R., SARI A., Pandey A.
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- XLI. **Thermal performance and design analysis of U-tube based vacuum tube solar collectors with and without phase change material for constant hot water generation**
Pathak S. K., Tyagi V., Chopra K., SARI A.
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- XLII. **Thermal energy saving and physico-mechanical properties of foam concrete incorporating form-stabilized basalt powder/capric acid based composite phase change material**
Kocuyigit F., Bayram M., HEKİMOĞLU G., Cay V. V., Gencil O., Ustaoglu A., SARI A., Erdogmus E., Ozbakkaloglu T.
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- XLIII. **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.
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- XLIV. **Investigation on Thermal Energy Storage Properties of Polyethylene Glycol with Hybrid Nanoparticles of Al₂O₃ and CuO for Solar Thermal Energy Storage**
Pandya M., Ansu A., Sharma R., Tripathi D., Tyagi V., SARI A.
ECS Journal of Solid State Science and Technology, cilt.12, sa.7, 2023 (SCI-Expanded)
- XLV. **Physical-Mechanical and Electrical Resistivity Properties of Cementitious Mortars Containing Fe₃O₄-MWCNTs Nanocomposite**
Selen V., Guler O., Nodehi M., SARI A., Yaras A., Gencil O., Gholampour A., Ozbakkaloglu T.
Sustainability (Switzerland), cilt.15, sa.14, 2023 (SCI-Expanded)
- XLVI. **5E analysis of a novel designed hot water storage header integrated vacuum tube solar water heater**
Chopra K., Tyagi V., Pathak S. K., Sharma R. K., Mansor M., Goel V., SARI A.
Thermal Science and Engineering Progress, cilt.42, 2023 (SCI-Expanded)
- XLVII. **Impact of Stearic Acid as Heat Storage Material on Energy Efficiency and Economic Feasibility of a Vacuum Tube Solar Water Heater**
Chopra K., Tyagi V., Pathak S. K., Khajuria A., Pandey A., Rahman N. A., Mansor M., SARI A.
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- XLVIII. **Energetic, Exergetic, and Heat Transfer Assessment of PCM-Integrated Heat-Pipe-Based ETSC for Clear and Cloudy Weather Conditions**
Pathak S. K., Tyagi V., Chopra K., Pandey A., SARI A., Abdulateef A. M.
Sustainability (Switzerland), cilt.15, sa.12, 2023 (SCI-Expanded)
- XLIX. **Influential antimony removal from Aquatic Solution using Graphene Nanoplatelet/*Staphylococcus aureus* as Novel Composite Adsorbent**
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SURFACES AND INTERFACES, cilt.38, 2023 (SCI-Expanded)
- L. **Response surface methodology-based extraction optimization with application of ZrCl₄ as novel quenching agent for enhancement of bio-oil yield from *Jatropha curcas* and *Chlorella pyrenoidosa***
Ahmad S., Kothari R., Pathak V. V., Tyagi V. V., Pandey A. K., SARI A.

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- LI. **Hot Water Generation for Domestic Use in Residential Buildings via PCM Integrated U-Tube Based Solar Thermal Collector: A 4-E Analysis**
Pathak S. K., Tyagi V., Chopra K., Pandey A., SARI A.
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- LII. **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.
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- LIII. **Influence of Different Angles in the Photobioreactor on Algal Biomass Growth with Optimized Poultry Excreta Leachate: A Batch-Scale Study**
Singh H. M., Tyagi V., Kothari R., SARI A.
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- LIV. **Synthesis of TiO₂ nanoparticles loaded on magnetite nanoparticles modified kaolinite clay (KC) and their efficiency for As(III) adsorption**
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- LV. **Experimental Analysis of Melting Behavior of Capric Acid (CA)–Stearic Acid (SA) Eutectic Mixture and its 3D Numerical Solution of Natural Convection in a Cup**
Coşanay H., Selimefendigil F., Öztop H. F., SARI A.
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- LVI. **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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- LVII. **Cleaner production of polyurethane (PU) foams through use of hydrodesulfurization (HDS) spent catalyst**
Yaras A., Nodehi M., Ustaoglu A., ARSLANOĞLU H., SARI A., Gencil O., Ozbakkaloglu T.
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- LVIII. **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.
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- LIX. **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, cilt.55, 2022 (SCI-Expanded)
- LX. **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, cilt.46, sa.14, ss.20873-20885, 2022 (SCI-Expanded)
- LXI. **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.
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- LXII. **Estimation of thermodynamic and enviroeconomic characteristics of khoa (milk food) production unit**
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Environment, Development and Sustainability, cilt.24, sa.11, ss.12542-12581, 2022 (SCI-Expanded)
- LXIII. **Evaluation of carbon based-supporting materials for developing form-stable organic phase change materials for thermal energy storage: A review**

- Singh P., Sharma R., Khalid M., Goyal R., SARI A., Tyagi V.
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- LXIV. **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.
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- LXV. **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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- LXVI. **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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- LXVII. **Effective antimony removal from wastewaters using polymer modified sepiolite: Isotherm kinetic and thermodynamic analysis**
Saleh T. A., Tuzen M., SARI A.
Chemical Engineering Research and Design, cilt.184, ss.215-223, 2022 (SCI-Expanded)
- LXVIII. **Factorial design, physical studies and rapid arsenic adsorption using newly prepared polymer modified perlite adsorbent**
Saleh T. A., Tuzen M., SARI A., ALTUNAY N.
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- LXIX. **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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- LXX. **Glass fiber reinforced gypsum composites with microencapsulated PCM as novel building thermal energy storage material**
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- LXXI. **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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- LXXII. **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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- LXXIII. **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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- LXXIV. **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.
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Ödüller

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