Res. Asst. AYKUT KARAKOR

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Education

Doctorate, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Makine Mühendisliği, Turkey 2025 - Present
Postgraduate, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Makine Mühendisliği, Turkey 2023 - 2025
Undergraduate, Manisa Celal Bayar University, Turkey 2016 - 2021

Research Areas

Avesis Research Areas: Engineering and Technology, Mechanical Engineering, Computational fluid dynamics, Thermal Systems
WoS Research Areas: Thermodynamics

Academic Positions

Research Assistant, Manisa Celal Bayar University, 2023 - Present

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Thermal Performance Investigation of Fin-Aided Cooling for Prismatic Li-ion Batteries**
Tıknazoğlu E., Kayaal D., Çatalkaya Ö., Karakor A., Yurddaş A.
10th International Students Science Congress, İzmir, Turkey, 14 - 15 May 2026, pp.265-275, (Full Text)

II. **THERMO-HYDRAULIC PERFORMANCE EVALUATION OF WAVY PLATE-FIN HEAT EXCHANGERS**
Karakor A., Selimefendigil F.
6 th INTERNATIONAL CANKAYA SCIENTIFIC STUDIES CONGRESS, Ankara, Turkey, 15 - 16 June 2026, pp.506-518, (Full Text)

III. **THE EFFECT OF CHANNEL GEOMETRY ON HEAT TRANSFER PERFORMANCE IN PLATE-FIN HEAT EXCHANGERS**
Karakor A., Selimefendigil F.
15th International ZEUGMA CONGRESS ON SCIENTIFIC RESEARCH, Gaziantep, Turkey, 19 - 21 February 2026, pp.71-80, (Full Text)

IV. **PARAMETRIC INVESTIGATION OF IMMERSION TYPE THERMAL MANAGEMENT SYSTEM OF LI-ION**

POUCH BATTERY MODULE

KARAKOR A., Tekin V., Korkmaz A., Çolpan C. Ö., Ezan M. A., Karaoğlan U., YURDDAŞ A.

37th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Rodos, Greece, 30 June - 05 July 2024, (Full Text)

V. **Enhancing Electric Vehicle Performance: Optimizing Battery Thermal Management With Cold Plate Technology**

Tekin V., Karakor A., Korkmaz S. A., Çolpan C. Ö., Ezan M. A., Erek A., Karaoğlan M. U., Küçüka M. S.

37th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS2024), Rodos, Greece, 30 June - 05 July 2024, pp.1613-1622, (Full Text)

VI. **COMPARATIVE ANALYSIS OF LUMPED MODEL AND NTGK MODEL APPROACHES FOR LI-ION BATTERIES**

Tekin V., Karakor A., Korkmaz S. A., Çolpan C. Ö., Ezan M. A., Karaoğlan M. U., Erek A., Çetkin E.

12th Global Conference on Global Warming (GCGW-2024), Şanlıurfa, Turkey, 16 - 19 May 2024, pp.507-510, (Full Text)

VII. **INVESTIGATION OF COLD PLATE-BASED THERMAL MANAGEMENT SYSTEM FOR LI-ION BATTERIES**

KARAKOR A., Tekin V., Korkmaz A., Çolpan C. Ö., Ezan M. A., Karaoğlan U., EREK A., YURDDAŞ A.

12th Global Conference on Global Warming (GCGW-2024), Turkey, 16 - 19 May 2024, (Full Text)

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