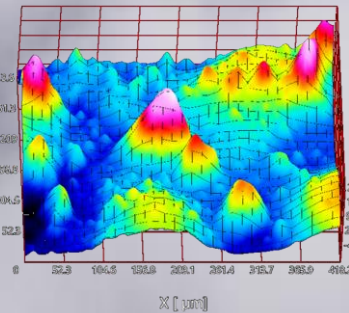
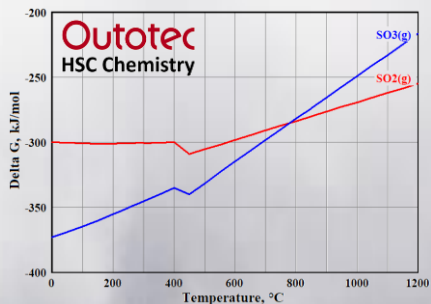




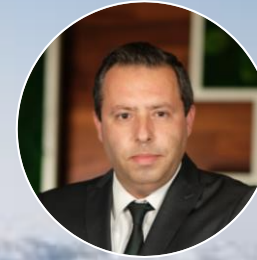
Yeditepe University
**Materials Science &
Nanotechnology Eng. Dpt.**
**Sustainable Process Metallurgy
(SPM) Research Group**

Research Interests

- ✓ Sustainable metallurgy
- ✓ Extractive metallurgy
Steel, Al, Cu, Mg, Li, Cu, Sb etc. and precious metals
- ✓ Recycling of metallurgical wastes
- ✓ Synthesis and sintering of advanced ceramics
- ✓ CO₂ capture



People



Principal Investigator
Assoc Prof Dr Ahmet Turan

PhD Students



Umay Çınarlı



İlayda Özbağ



Tuğçe Ergül



Umut Özdemir

MSc Students



Talal Al Raas



Azer Vurkır





Yeditepe University
Materials Science &
Nanotechnology Eng. Dpt.
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Projects

- ✓ Science Committee of Kazakhstan, “Development of a refractory materials technology in solid-phase combustion and reactive sintering from metal industry waste”. 2020 - 2022 (Completed)
- ✓ HORIZON 2020 EU Co-funded ERA-MIN 3 project (122N062), “Utilization of aluminium bearing raw materials for the production of aluminium metal, other metals and compounds”. 2022 - 2025 (Ongoing)
- ✓ European Cooperation in Science & Technology (COST) Action (CA21127), “Techno-economic analysis of carbon mitigation technologies (TrANsMIT)”. 2022 – 2026 (Ongoing)

Selected Publications

- ✓ Valorisation of aluminium black dross
DOI: <https://doi.org/10.1007/s42461-020-00344-0>
- ✓ Solid state synthesis of Li_4SiO_4 for CO_2 capture
DOI: <https://doi.org/10.1039/C7TA08738A>
- ✓ Refractory brick production from metallurgical wastes
DOI: <https://doi.org/10.3390/su141811439>

Industrial & Academic Partners / Collaborators

