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### Research Areas

Chemical Engineering and Technology, Inorganic Technologies, Organic Technologies, Process and Reactor Design, Engineering and Technology

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Surfactant-assisted synthesis of anhydrous magnesium borates for Congo red photodegradation**  
GÜL E. M., Senberber Dumanli F. T., KIPÇAK A. S., DERUN E.  
Ceramics International, 2025 (SCI-Expanded)
- II. **Cobalt aluminates prepared by ultrasonic-assisted synthesis using different surfactants for Congo red photocatalytic degradation**  
GÜL E. M., Senberber Dumanli F. T., DERUN E.  
International Journal of Materials Research, 2025 (SCI-Expanded)
- III. **Ultrasonic-assisted Co-precipitation synthesis of CoAl<sub>2</sub>O<sub>4</sub> with different capping agents: Determination of electrical and optical features**  
AYDIN YÜKSEL S., GÜL E. M., Senberber Dumanli F. T., DERUN E.  
Materials Chemistry and Physics, vol.313, 2024 (SCI-Expanded)
- IV. **Effects of Capping Agents on the Congo Red Adsorption of Ultrasonic-Assisted Synthesised Cobalt Aluminates**  
Dumanli F. T., GÜL E. M., Ozturk Z., Gurel S., DERUN E.  
Water, Air, and Soil Pollution, vol.235, no.1, 2024 (SCI-Expanded)
- V. **Synthesis of cobalt aluminates by using the peel extracts of Citrus family species**  
DUMANLI F. T., GÜL E. M., DERUN E.  
Main Group Chemistry, vol.22, no.2, pp.177-185, 2023 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of pH Effect on the Production of Spinels Synthesis from Clays**  
Sencar E., Güneş I., Gül E. M., Şenberber Dumanlı F. T., Derun E.  
7. Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, İstanbul, Turkey, 25 - 26 May 2024, pp.141-147
- II. **Evaluation of Hydrothermal Production of Magnesium Borate Samples in the Treatment of Industrial Dyes from Wastewater**

Ak B., Gül E. M., Şenberber Dumanlı F. T., Kıpçak A. S., Derun E.

6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.1145-1150

**III. BOYA KATKILI POLİMER FİLMERİN ÜRETİMİ**

Uygunöz D., Kaymak Sezer B., Öz M., Gül E. M., Derun E.

15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.408-411

**IV. Polivinil Alkol Matrisli Bitkisel Transdermal Formülasyon Sentezlenmesi**

Gül E. M., Abahuni Uçar M., Pişkin M. B., Derun E.

9. Bilim Günleri Kongresi, İstanbul, Turkey, 9 - 11 May 2023, pp.1

**V. Polivinil Alkol Matrisli Bitkisel İçerikli Hidrojel Yara Örtüsü Tasarımı**

Abahuni Uçar M., Gül E. M., Pişkin M. B., Derun E.

9. Bilim Günleri Kongresi, İstanbul, Turkey, 9 - 11 May 2023, pp.1

**VI. Sonochemical synthesis of cobalt aluminates: Effect of CTAB as a capping agent**

Dumanlı F. T. S., Gül E. M., Derun E.

5th International Eurasian Conference on Biological and Chemical Sciences, 23 - 25 November 2022, pp.624-628

## Supported Projects

Şenberber Dumanlı F. T., Gül E. M., Derun E., Project Supported by Other Private Institutions, Kapayıcı Ajan Katkılı Magnezyum Boratların Endüstriyel Boyaların Atık Sulardan Arıtımında Değerlendirilmesi, 2022 - 2024

DERUN E., TUĞRUL N., GÜL E. M., Abahuni Uçar M., UYGUNÖZ D., Project Supported by Higher Education Institutions, Bellek Bozuklukları Tedavisine Yönelik Bitkisel İçerikli Transdermal Formülasyon Geliştirilmesi, 2022 - 2024

## Metrics

Publication: 11

Citation (Scopus): 7

H-Index (Scopus): 2