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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. **Preparation of cobalt aluminates by ultrasonic-assisted synthesis with surfactants for Congo Red photocatalytic degradation**
Gül E. M., Şenberber Dumanlı F. T., Derun E.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.1, pp.1-10, 2024 (SCI-Expanded)
- II. **Ultrasonic-assisted Co-precipitation synthesis of CoAl₂O₄ 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)
- III. **Effects of Capping Agents on the Congo Red Adsorption of Ultrasonic-Assisted Synthesised Cobalt Aluminates**
Dumanli F. T. S., GÜL E. M., Ozturk Z., Gurel S., DERUN E.
Water, Air, and Soil Pollution, vol.235, no.1, 2024 (SCI-Expanded)
- IV. **Synthesis of cobalt aluminates by using the peel extracts of Citrus family species**
Şenberber Dumanlı 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 Spinel 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 FİLMLEİN 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

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 - Continues

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

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