

## Assoc. Prof. SONER TOP

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### International Researcher IDs

ORCID: 0000-0003-3486-4184

Publons / Web Of Science ResearcherID: H-3310-2015

ScopusID: 57192650171

Yoksis Researcher ID: 57729

### Education Information

Postgraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi/Fen Bilimleri Fakültesi/Maden Mühendisliği Bölümü, Maden Mühendisliği Bölümü/Cevher Hazırlama Anabilim Dalı, Turkey 2010 - 2014

Undergraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği Bölümü, Turkey 2006 - 2011

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Kromit Konsantrasyon Tesisi Artıklarından Karnalit Hazırlanması, Cukurova University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Bölümü/Cevher Hazırlama Anabilim Dalı, 2014

### Research Areas

Chemical Engineering and Technology, Chemical Technologies, Polymer Technology, Mining Engineering and Technology, Ore-Dressing, Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Cukurova University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği Bölümü, 2012 - Continues

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

1. A review on the recovery of high-grade critical metals from spent petroleum catalysts for meeting the demands of Industry 5.0

Taz D., Ozsarac S., Kursunoglu S., Kursunoglu N., TOP S., Altiner M.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.46, no.1, pp.4593-4607, 2024 (SCI-Expanded)

- II. **Characterization of Nickel in Chromite Beneficiation Tailings by Mineral Liberation Analysis and Its Recovery by H<sub>2</sub>SO<sub>4</sub> Leaching Followed by Oxalic Acid Precipitation**  
ALTINER M., Ibrahim A. I. I., Kursunoglu S., TOP S., BAYAT O.  
JOM, vol.76, no.3, pp.1383-1393, 2024 (SCI-Expanded)
- III. **Recovery of Vanadium and Nickel from a High CaCO<sub>3</sub> Containing Petroleum Coke Ash by Roasting and Acidic Leaching**  
Yurtseven O., Ibrahim A., TOP S., Kursunoglu S., Altiner M.  
JOURNAL OF SUSTAINABLE METALLURGY, vol.9, no.4, pp.1744-1758, 2023 (SCI-Expanded)
- IV. **Production of Alpha-Alumina from Black Aluminum Dross Using NaOH Leaching Followed by Calcination**  
TÜRK M., ALTINER M., TOP S., KARACA S., Bouchekrit C.  
JOM, vol.72, no.10, pp.3358-3366, 2020 (SCI-Expanded)
- V. **Comparison of iron ores upgraded with Falcon concentrator and magnetic separators assisted by coal reduction-conversion process**  
VAPUR H., TOP S., ALTINER M., Uckun S., SARIKAYA M.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.38, no.4, pp.409-418, 2020 (SCI-Expanded)
- VI. **Comparison of iron ores upgraded with Falcon concentrator and magnetic separators assisted by coal reduction-conversion process**  
VAPUR H., TOP S., ALTINER M., Uçkun Ş., Sarıkaya M.  
PARTICULATE SCIENCE AND TECHNOLOGY, pp.1-10, 2019 (SCI-Expanded)
- VII. **Production of precipitated calcium carbonate particles from gypsum waste using venturi tubes as a carbonation zone**  
ALTINER M., TOP S., Kaymakoğlu B., SEÇKİN İ. Y., VAPUR H.  
JOURNAL OF CO<sub>2</sub> UTILIZATION, vol.29, pp.117-125, 2019 (SCI-Expanded)
- VIII. **Effect of basaltic pumice aggregate addition on the material properties of fly ash based lightweight geopolymer concrete**  
TOP S., VAPUR H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1163, pp.10-17, 2018 (SCI-Expanded)
- IX. **Characterization of zeolites synthesized from porous wastes using hydrothermal agitational leaching assisted by magnetic separation**  
TOP S., VAPUR H., EKİCİBİL A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1163, pp.4-9, 2018 (SCI-Expanded)
- X. **Preparation of synthetic carnallite and amorphous silica from chromite beneficiation plant tailings**  
TOP S., YILDIRIM M.  
GOSPODARKA SUROWCAMI MINERALNYMI-MINERAL RESOURCES MANAGEMENT, vol.33, no.2, pp.5-23, 2017 (SCI-Expanded)
- XI. **Comparison of coal-based energy production with other resources to determine an effective method in Turkey**  
VAPUR H., TOP S.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.12, no.3, pp.282-288, 2017 (SCI-Expanded)
- XII. **PURIFICATION OF FELDSPAR FROM COLORED IMPURITIES USING ORGANIC ACIDS**  
VAPUR H., TOP S., DEMİRCİ S.  
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.53, no.1, pp.150-160, 2017 (SCI-Expanded)
- XIII. **Spekülerit Cevherinin Kalite Özelliklerinin İyileştirilmesi**  
VAPUR H., TOP S.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.31, no.1, pp.293-300, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Dissolution of Uranium and Rare Earth Elements from a Low-Grade Phosphate Ore Using Different Acids**  
ALTINER M., TOP S., KAYMAKOĞLU B., BAYAT O.  
Geosound, vol.54, no.1, pp.66-83, 2021 (Peer-Reviewed Journal)
- II. **Artık malzemelerden Box Behnken test dizaynı kullanılarak hafif geopolimer beton üretimi**  
TOP S., VAPUR H.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.2, pp.689-700, 2020 (Peer-Reviewed Journal)
- III. **Zeolite Synthesis by Alkali Fusion Method Using Two Different Fly Ashes Derived From Turkish Thermal Power Plants**  
TOP S., VAPUR H.  
Scientific Mining Journal, vol.59, no.1, pp.7-14, 2020 (Scopus)
- IV. **Effective Processing of Specularite Ore by Wet Magnetic Separation and Reverse Flotation Techniques**  
Al-Dhubaibi A. M., VAPUR H., TOP S.  
Hittite Journal of Science and Engineering, vol.6, no.3, pp.201-208, 2019 (Peer-Reviewed Journal)
- V. **Evolution of Energy Strategies in Turkey: Forecasts by Time Series**  
TOP S., VAPUR H.  
Journal of Energy Research and Reviews, vol.1, no.4, pp.1-16, 2018 (Peer-Reviewed Journal)
- VI. **KROMİT KONSANTRASYON TESİSİ ARTIKLARINDAN MAGNEZYUM SÜLFAT (MgSO<sub>4</sub>) SENTEZİ**  
TOP S., YILDIRIM M.  
Madencilik, vol.54, no.1, pp.37-46, 2015 (Peer-Reviewed Journal)
- VII. **Adana Aladağ Kromit Zenginleştirme Tesisi Artıklarından Kromit Kazanımı**  
TOP S., YILDIRIM M.  
Çukurova Üniversitesi, Fen ve Mühendislik Bilimleri Dergisi, vol.32, no.2, pp.137-146, 2015 (Peer-Reviewed Journal)
- VIII. **Kromit Konsantrasyon Tesisi Artıklarından Magnezyum Sülfat MgSO<sub>4</sub> Sentezi**  
TOP S., YILDIRIM M.  
Madencilik, vol.54, no.1, pp.37-46, 2015 (Peer-Reviewed Journal)
- IX. **Elazığ Ferro-krom Tesisi Cürufklarının Agrega Özelliklerinin Araştırılması**  
VAPUR H., TOP S., Teymen A., Türkmenoğlu M.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.28, no.1, pp.77-88, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Properties of alkali-activated lightweight concrete**  
TOP S., ALTINER M., VAPUR H.  
in: Handbook of Advances in Alkali-activated Concrete, Torgal Fernando Pacheco , ChindaprasirtPrinya , Özbakkaloglu Togay, Editor, Elsevier, Duxford, pp.345-367, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of High Temperature on the Strength of Geopolymer Concrete Produced from Industrial Tailings**  
TOP S., İRFAN T., KÖKEN E., KURŞUNOĞLU S., VAPUR H.  
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019) October

16-18, 2019, Niğde, TURKEY, 16 - 18 October 2019

- II. **Separation of Unburned Carbon and Iron Materials in Isdemir Iron and Steel Plant Flue Dusts**  
Gözdamlı E., VAPUR H., TOP S., ALTINER M.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.267
- III. **Zeolite Synthesis From Fly Ashes by Hydrothermal Alkali Pressure Leaching Process**  
VAPUR H., TOP S., ALTINER M.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.54
- IV. **Magnetic separation of iron ores after hematite-magnetite conversion**  
TOP S., Uçkun S., VAPUR H., ALTINER M., Sarıkaya M.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.266
- V. **Production of Fly Ash Based Geopolymer Lightweight Concrete with Different Lightweight Aggregate Additions**  
TOP S., ALTINER M., VAPUR H.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.102
- VI. **A Preliminary Study on Separation of Fe and Ti From Titano-Magnetite Ore Using Coal-Based Direct Reduction Followed by Magnetic Separation**  
ALTINER M., TOP S., VAPUR H.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.234
- VII. **Influence of NH<sub>4</sub>/Ca Molar Ratio on Polymorph Properties of Precipitated Calcium Carbonate Particles Obtained from Gypsum Waste Using a Modified Merseburg Process**  
ALTINER M., TOP S., VAPUR H.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.236
- VIII. **Türkiye' deki İş Kazalarının Bazı Ülkelerle Kıyaslanması**  
Demirel Top E., ÇETİNKAYA Ç., TOP S., YAPICI N.  
II. Uluslararası Multidisipliner Çalışmaları Kongresi, Adana, Turkey, 4 - 05 May 2018, pp.974
- IX. **Türkiye' deki İş Kazası Kaynaklı Ölümün İstatistiksel Değerlendirmesi**  
ÇETİNKAYA Ç., Demirel Top E., TOP S., YAPICI N.  
II. Uluslararası Multidisipliner Çalışmaları Kongresi, Adana, Turkey, 4 - 05 May 2018, pp.864
- X. **TÜRKİYE'DEKİ İŞ KAZALARININ BAZI ÜLKELERLE KIYASLANMASI**  
TOP E., ÇETİNKAYA Ç., TOP S., YAPICI N.  
2. uluslararası multidisipliner kongresi, 4 - 05 April 2018
- XI. **TÜRKİYE'DEKİ İŞ KAZASI KAYNAKLI ÖLÜMLERİN İSTATİSTİKSEL DEĞERLENDİRMESİ**  
Çetinkaya Ç., DEMİREL E., TOP S., YAPICI N.  
2.uluslararası multidisiplin kongresi, 4 - 05 April 2018
- XII. **Doğu Akdeniz ve KKTC SAHİL KUMLARINDAKİ AĞIR METAL DAĞILIMININ İNCELENMESİ**  
demirel e., TOP S., YAPICI N.  
Uluslararası Maden işletmelerinde iş güvenliği sempozyumu, Adana, Turkey, 2 - 03 November 2017
- XIII. **Emprical Applications of Fine Kidney and Fault Tree Risk Analysis Methods Focused on the Risks in Ore Dressing Plants**  
TOP S., Demirel Top E., VAPUR H.  
International Symposium on Occupational Health and safety in Mining, Adana, Turkey, 2 - 03 November 2017, pp.788-797
- XIV. **DOĞU AKDENİZ VE KKTC SAHİL KUMLARINDAKİ AĞIR METAL DAĞILIMLARININ İNCELENMESİ**  
Demirel Top E., TOP S., YAPICI N., Memiş O.  
International Symposium on Occupational Health and Safety in Mining?2017, Adana, Turkey, 2 - 03 November

2017, pp.739-757

- XV. **EMPIRICAL APPLICATIONS OF FINE-KINNEY AND FAULT TREE RISK ANALYSIS METHODS FOCUSED ON THE RISKS IN ORE DRESSING PLANTS**  
TOP S., Demirel Top E., VAPUR H.  
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- XVI. **Empirical Applications of Fine-Kinney and Fault Tree Risk Analysis Methods Focused on the Risks in Ore Dressing Plants**  
TOP S., Demirel Top E., VAPUR H.  
Uluslararası Maden İşletmelerinde İş Sağlığı ve İş Güvenliği Sempozyumu, Adana, Turkey, 2 - 03 November 2017, vol.-, pp.788-797
- XVII. **METAL DÖKÜM İŞLERİNİN İŞ GÜVENLİĞİ YÖNÜNDEN İNCELENMESİ**  
Memiş O., DEMİREL TOP E., TOP S., YAPICI N., Çiçek H. A.  
International Symposium on Occupational Health and Safety in Mining?2017, Adana, Turkey, 2 - 03 November 2017, pp.811-824
- XVIII. **Upgrading the Chromite Content in the Silica Fume by AlkaliAgitating Leaching**  
TOP S., VAPUR H.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1057-1060
- XIX. **A research for the Characterization of Coastal Sands in East Mediterranean and TRNC by ArcGIS**  
DEMİREL e., TOP S., YAPICI N.  
Uluslararası Symposium on GIS Application, Çanakkale, Turkey, 18 - 21 October 2017
- XX. **A Research for the Characterization of Coastal Sands in East Mediterranean (Between Samandağı and Narlıkuyu) and TRNC by ArcGIS**  
Demirel E., TOP S., YAPICI N.  
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY AND GEOSCIENCES, Çanakkale, Turkey, 18 - 21 October 2017, pp.75-84
- XXI. **Metal Döküm işlerinin İş Güvenliği Yönünden İncelenmesi**  
memiş o., demirel e., TOP S., YAPICI N., çiçek H.  
Uluslararası maden İşletmelerinde İşçi Sağlığı, Adana, Turkey, 2 - 03 October 2017
- XXII. **KROMİT ZENGİNLEŞTİRME TESİSİ ARTIKLARININ GERİ KAZANIMI ÜZERİNE DENEYSEL BİR ÇALIŞMA: ADANAALADAĞ ÖRNEĞİ**  
ERGİN C., TOP S., Eryılmaz G. D.  
ULUSLARARASI MADENCİLİK VE ÇEVRE SEMPOZYUMU 2017, Muğla, Turkey, 27 - 29 September 2017, pp.1015-1028
- XXIII. **Effect of Basaltic Pumice Aggregate Addition on the Strength of Fly Ash Based Lightweight Geopolymer Concrete**  
TOP S., VAPUR H., EKİCİBİL A.  
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Sarajevo, Bosnia And Herzegovina, 27 - 29 June 2017, pp.29
- XXIV. **Hydrothermal Synthesis of Zeolite Na-P1 from Sugözü Thermic Power Plant Fly Ashes**  
TOP S., EKİCİBİL A., VAPUR H.  
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Sarajevo, Bosnia And Herzegovina, 27 - 29 June 2017, pp.119
- XXV. **Beneficiation of Sorgun Lignits by Flotation**  
TOP S., VAPUR H.  
Uluslararası Katılımlı 40. Yıl Jeoloji Sempozyumu, Adana, Turkey, 3 - 06 May 2017, pp.193-194
- XXVI. **Fly Ash and Industrial Slag Based Concrete Production**  
TOP S., VAPUR H., Daday M. T.  
1st International Mediterranean SCIENCE AND ENGINEERING CONGRESS, Adana, Turkey, 26 - 28 October 2016, pp.4071-4076

- XXVII. **Fiy ash and slag based geopolymer concrete production**  
TOP S., VAPUR H., Taykurt Daday M.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.4071-4076
- XXVIII. **Fly ash and industrial slag based geopolymer concrete production**  
TOP S., VAPUR H., TAYKURT DADAY M.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.4071-4076
- XXIX. **Determination of fine grinding Characteristics of some industrial ores by stirred ball mill**  
VAPUR H., TOP S.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.341-346
- XXX. **OHS Problems in Basic Ore Beneficiation Plants of Adana Region and Investigation of Dangers in terms of Risk Analysis**  
TOP S., VAPUR H.  
8. Uluslararası İş Sağlığı ve Güvenliği Konferansı, İstanbul, Turkey, 8 - 11 May 2016
- XXXI. **OHS Problems in Basic Ore Beneficiation Plants of Adana Region and Investigation of Dangers in terms of Risk Analysis**  
TOP S., VAPUR H.  
8th International Conference On Occupational Safety & Health, İstanbul, Turkey, 8 - 11 May 2016, pp.102
- XXXII. **İSG Yönünden Cevher Hazırlama Proseslerindeki Problemler ve Önerilen Çözümler**  
TOP S., VAPUR H.  
Maden İşletmelerinde İşçi Sağlığı ve İş Güvenliği Sempozyumu 2015, Adana, Turkey, 21 - 22 December 2015, pp.275-288
- XXXIII. **Türkiye deki Fosil Yenilenebilir Enerji Kaynakları ve Sürdürülebilir Madencilik Genel Bir Bakış**  
TOP S., VAPUR H.  
V. Madencilik ve Çevre Sempozyumu, Antalya, Turkey, 26 - 27 November 2015, pp.15-29
- XXXIV. **REMOVAL OF IRON CONTENT IN FELDSPAR ORES BY LEACHING WITH ORGANIC ACIDS**  
VAPUR H., TOP S., DEMİRCİ S., ALTINER M.  
XVI Balkan Mineral Processing Congress, Belgrad, Serbia And Montenegro, 17 - 19 June 2015, vol.2, pp.761-766
- XXXV. **Investigation of the Enrichment Possibilities of Teckrom Mining Company Tailings**  
VAPUR H., TOP S., DEMİRCİ S., Develi Y., Sirkeci A. A.  
14th International Mineral Processing Symposium, Aydın, Turkey, 15 - 17 October 2014, pp.183-190
- XXXVI. **Investigation of the Beneficiation of Low Grade Manganese Ores**  
BAYAT O., TOP S., ALTINER M.  
23rd International Mining Congress & Exhibition of Turkey, Antalya, Turkey, 16 - 19 April 2013, pp.1-3

## Metrics

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