

## Assoc. Prof. SAİT KURŞUNOĞLU

### Personal Information

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### Education Information

Doctorate, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Maden Mühendisliği / Cevher Hazırlama Abd, Turkey 2010 - 2016

Postgraduate, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Maden Mühendisliği / Cevher Hazırlama Abd, Turkey 2007 - 2010

Undergraduate Double Major, Eskişehir Osmangazi Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Metalurji Ve Malzeme Mühendisliği, Turkey 2003 - 2006

Undergraduate, Eskişehir Osmangazi Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Maden Mühendisliği, Turkey 2002 - 2006

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Çaldağ Lateritik Nikel Cevherinden Liç ve Solvent Ekstraksiyon ile Nikel ve Kobalt Kazanımı , Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Maden Mühendisliği / Cevher Hazırlama Abd, 2016

Postgraduate, Atık/Kullanılmış Çinko-Karbon ve Alkali Pillerden Çinko ve Manganın Geri Kazanılması , Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Maden Mühendisliği / Cevher Hazırlama Abd, 2010

### Research Areas

Chemical-Biological Winning Techniques and Mineral Processing, Recycling Processes, Hydrometallurgy

### Academic Titles / Tasks

Associate Professor, Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2021 - Continues

Research Assistant PhD, Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2016 - 2021

Research Assistant, Eskişehir Osmangazi Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Maden Mühendisliği Bölümü / Cevher Hazırlama Abd, 2012 - 2016

Research Assistant, Abdullah Gul University, Mühendislik Fakültesi, Maden Mühendisliği, 2011 - 2012

Research Assistant, Eskişehir Osmangazi Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, Maden Mühendisliği Bölümü / Cevher Hazırlama Abd, 2009 - 2011

## Courses

Hydrometallurgy, Undergraduate, 2017 - 2018, 2018 - 2019

Waste Treatment and Recycling, Undergraduate, 2017 - 2018, 2018 - 2019

Rare Earth Metals and Resources, Undergraduate, 2018 - 2019

Separation and Purification, Undergraduate, 2018 - 2019

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Production of Mn<sub>3</sub>O<sub>4</sub> nanoparticles from a manganiferous iron ore via reductive leaching, precipitation, and calcination**  
Altner M., Top S., Boucekrit C., Kurşunoğlu S.  
Hydrometallurgy, pp.1-14, 2021 (Journal Indexed in SCI Expanded)
- II. **Separation of Mn and Fe from a Manganiferous Iron Ore Using Horse Dung as Reductant: A Zero Waste Approach**  
Top S., Altner M., Kurşunoğlu S.  
Jom, vol.1, no.1, pp.1-15, 2021 (Journal Indexed in SCI Expanded)
- III. **Pb-Zn recovery from a malic leach solution of a carbonate type ore flotation tailing by precipitation and solvent extraction**  
Hussaini S., Tita A. M., Kurşunoğlu S., Top S., Ichlas Z. T., Kar U., Kaya M.  
Separation and Purification Technology, vol.272, 2021 (Journal Indexed in SCI Expanded)
- IV. **Selective leaching of a mixed nickel-cobalt hydroxide precipitate in sulphuric acid solution with potassium permanganate as oxidant**  
Hussaini S., Ichlas Z. T., TOP S., KURŞUNOĞLU S., Kaya M.  
Separation Science and Technology (Philadelphia), vol.56, pp.2475-2484, 2021 (Journal Indexed in SCI)
- V. **Testing of 17-different leaching agents for the recovery of zinc from a carbonate-type Pb-Zn ore flotation tailing**  
Hussaini S., KURŞUNOĞLU S., TOP S., Ichlas Z. T., KAYA M.  
Minerals Engineering, vol.168, 2021 (Journal Indexed in SCI)
- VI. **Production of mixed rare earth oxide powder from a thorium containing complex Bastnasite ore**  
KURŞUNOĞLU S., Hussaini S., TOP S., Ichlas Z. T., GÖKÇEN H. S., Ozsarac S., KAYA M.  
POWDER TECHNOLOGY, vol.379, pp.641-654, 2021 (Journal Indexed in SCI)
- VII. **Selection of an appropriate acid type for the recovery of zinc from a flotation tailing by the analytic hierarchy process**  
KURŞUNOĞLU S., Kursunoglu N., Hussaini S., Kaya M.  
Journal of Cleaner Production, vol.283, 2021 (Journal Indexed in SCI)
- VIII. **Recovery of zinc and lead from Yahyali non-sulphide flotation tailing by sequential acidic and sodium hydroxide leaching in the presence of potassium sodium tartrate**  
KURŞUNOĞLU S., TOP S., KAYA M.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.30, no.12, pp.3367-3378, 2020 (Journal Indexed in SCI)
- IX. **Critical review on secondary zinc resources and their recycling technologies**  
Kaya M., Hussaini S., KURŞUNOĞLU S.  
HYDROMETALLURGY, vol.195, 2020 (Journal Indexed in SCI)
- X. **Effects of leaching parameters on the dissolution of nickel, cobalt, manganese and iron from Caldag lateritic nickel ore in hydrochloric acid solution**  
TOP S., KURŞUNOĞLU S., Ichlas Z. T.  
CANADIAN METALLURGICAL QUARTERLY, 2020 (Journal Indexed in SCI)
- XI. **Synergistic effect of organic acid on the dissolution of mixed nickel-cobalt hydroxide precipitate in sulphuric acid solution**  
KURŞUNOĞLU S.

Metallurgical Research and Technology, vol.116, no.3, 2019 (Journal Indexed in SCI)

- XII. **Dissolution of lateritic nickel ore using ascorbic acid as synergistic reagent in sulphuric acid solution**  
KURŞUNOĞLU S., Ichlas Z. T. , Kaya M.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.28, no.8, pp.1652-1659, 2018 (Journal Indexed in SCI)
- XIII. **Leaching method selection for Caldag lateritic nickel ore by the analytic hierarchy process (AHP)**  
KURŞUNOĞLU S., Ichlas Z. T. , Kaya M.  
Hydrometallurgy, vol.171, pp.179-184, 2017 (Journal Indexed in SCI)
- XIV. **Solvent extraction process for the recovery of nickel and cobalt from Caldag laterite leach solution: The first bench scale study**  
KURŞUNOĞLU S., Ichlas Z. T. , Kaya M.  
Hydrometallurgy, vol.169, pp.135-141, 2017 (Journal Indexed in SCI)
- XV. **Atmospheric pressure acid leaching of Caldag lateritic nickel ore**  
Kursunoglu S., Kaya M.  
International Journal of Mineral Processing, vol.150, pp.1-8, 2016 (Journal Indexed in SCI)
- XVI. **Dissolution behavior of Caldag lateritic nickel ore subjected to a sequential organic acid leaching method**  
Kursunoglu S., Kaya M.  
International Journal of Minerals, Metallurgy and Materials, vol.22, no.11, pp.1131-1140, 2015 (Journal Indexed in SCI)
- XVII. **Dissolution and precipitation of zinc and manganese obtained from spent zinc-carbon and alkaline battery powder**  
Kursunoglu S., Kaya M.  
Physicochemical Problems of Mineral Processing, vol.50, no.1, pp.41-55, 2014 (Journal Indexed in SCI)
- XVIII. **Recovery of manganese from spent batteries using guar meal as a reducing agent in a sulfuric acid medium**  
Kursunoglu S., Kaya M.  
Industrial and Engineering Chemistry Research, vol.52, no.50, pp.18076-18084, 2013 (Journal Indexed in SCI)
- XIX. **Recovery of manganese from spent batteries using activated carbon powder as reductant in sulfuric acid solution**  
KURŞUNOĞLU S., Kaya M.  
Asian Journal of Chemistry, vol.25, no.4, pp.1975-1980, 2013 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **EXTRACTION OF LANTHANUM AND CERIUM FROM A BASTNASITE ORE BY DIRECT ACIDIC LEACHING**  
KURŞUNOĞLU S., TOP S., Hussaini S., GÖKÇEN H. S. , ALTINER M., ÖZSARAÇ Ş., KAYA M.  
Bilimsel Madencilik Dergisi, vol.59, no.2, pp.85-92, 2020 (Other Refereed National Journals)
- II. **HYDROMETALLURGICAL PROCESSING OF NICKEL LATERITES— A BRIEF OVERVIEW ON THE USE OF SOLVENT EXTRACTION AND NICKEL/COBALT PROJECT FOR THE SEPARATION AND PURIFICATION OF NICKEL AND COBALT**  
Kurşunoğlu S., Kaya M.  
Scientific Mining Journal, vol.58, no.2, pp.131-144, 2019 (Other Refereed National Journals)
- III. **EXTRACTION OF NICKEL FROM A MIXED NICKEL-COBALT HYDROXIDE PRECIPITATE**  
KURŞUNOĞLU S.  
Scientific Mining Journal, vol.58, no.1, pp.45-52, 2019 (Other Refereed National Journals)

## Books & Book Chapters

### I. Recycling of Polymer and Non-metallic Fraction (NmF) of E-waste

Kaya M., Kurşunoğlu S., Hussaini S.

in: HORIZONS IN EARTH SCIENCE RESEARCH, Benjamin Veress, Jozsi Szigethy, Editor, NOVA Science Publishers Inc., New York, pp.1-270, 2021

## Refereed Congress / Symposium Publications in Proceedings

### I. Effect of petrochemical compounds on environment and human health

Kurşunoğlu S., Kurşunoğlu N.

INTERNATIONAL SIIRT CONFERENCE ON SCIENTIFIC RESEARCH Siirt University, Siirt, Turkey, 5 - 07 November 2021, pp.1-8

### II. Leaching of Turkish Oxidized Pb-Zn Flotation Tailings by Inorganic and Organic Acids

Kaya M., KURŞUNOĞLU S., Hussaini S., Gül E.

9th International Symposium on Lead and Zinc Processing, PbZn 2020, held in conjunction with the 149th Annual Meeting and Exhibition, TMS 2020, California, United States Of America, 23 - 27 February 2020, pp.447-468

### III. Effect of High Temperature on the Strength of Geopolymer Concrete Produced from Industrial Tailings

Top S., Timür İ., Köken E., Kurşunoğlu S., Vapur H.

6 th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), Niğde, Turkey, 16 - 18 November 2019, pp.364-370

### IV. Synthesis of Calcium Magnesium Acetate (CMA) Deicer from Dolomite

Kurşunoğlu S., Köken E., Top S.

6 th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), Niğde, Turkey, 16 - 18 November 2019, pp.357-363

### V. Leaching of Oxidized Turkish Pb-Zn Flotation Tails By Inorganic Acids

KAYA M., Gül E., KURŞUNOĞLU S., Hussaini S.

IMPC Eurasia Conference, Antalya, Turkey, 31 October - 02 November 2019, pp.491-502

### VI. LEACHING OF YAHYALI NON-SULPHIDE Pb-Zn FLOTATION TAILING USING ORGANIC ACIDS

Hussaini S., KURŞUNOĞLU S., Kaya M.

26th International Mining Congress and Exhibition (IMCET 2019), Antalya, Turkey, 16 - 19 April 2019, pp.1-12

### VII. Solvent Extraction of Nickel and Cobalt from a Multicomponent Synthetic Leach Solution

KURŞUNOĞLU S.

XVI International Mineral Processing Symposium, Antalya, Turkey, 23 - 25 October 2018, pp.333-339

### VIII. Extraction of Nickel and Cobalt from a Lateritic Nickel Ore in Nitric Acid Solution

Hussaini S., Gül E., KURŞUNOĞLU S., Ichlas Z. T. , KAYA M.

XVI International Mineral Processing Symposium, Antalya, Turkey, 23 - 25 October 2018, pp.333-3396

### IX. Synergistic Effect of Organic Acid for Leaching of Nickel and Cobalt from Lateritic Nickel Ore with Sulphuric Acid Solution

KURŞUNOĞLU S., Ichlas Z. T. , Kaya M.

XVII Balkan Mineral Processing Congress, Antalya, Turkey, 1 - 03 November 2017, pp.523-533

### X. Solvent Extraction of Nickel and Cobalt from Caldag Laterite Leach Solutions Using Versatic10 and Cyanex 272

KURŞUNOĞLU S., Ichlas Z. T. , Ibana D., Kaya M.

15 th International Mineral Processing Symposium, İstanbul, Turkey, 17 - 21 October 2016, pp.658-672

### XI. Thorium fuel for nuclear Energy

Kaya M., Kursunoglu S.

27th International Mineral Processing Congress, IMPC 2014, Santiago, Chile, 20 - 24 October 2014

### XII. RECENT DEVELOPMENTS on THORIUM NUCLEAR FUEL and REACTOR TECHNOLOGIES

Kaya M., KURŞUNOĞLU S.

XIV International Mineral Processing Symposium 2014 (IMPS-2014), Kusadası, Turkey, Aydın, Turkey, 13 - 17 October 2014, pp.1-5

**XIII. EVALUATION OF SPENT ALKALINE AND ZINC-CARBON BATTERY RECYCLING USING ASCORBIC ACID, ACTIVATED CARBON AND GUAR MEAL REDUCTANTS**

Kaya M., KURŞUNOĞLU S.

23th World Mining Congress, Montreal, Canada, Montreal, Canada, 13 - 17 May 2013, pp.1-14

**XIV. COMPARISON OF SPENT HOUSEHOLD BATTERY RECYCLING USING REDUCTIVE ACID LEACHING TECHNIQUES**

KURŞUNOĞLU S., Kaya M., Sözeri A.

4th International Conference on Engineering for Waste and Biomass Valorisation, Porto, Portugal, Porto, Portugal, 10 - 14 September 2012, pp.1-15

**XV. Dissolution of mixed zinc-carbon and alkaline battery powders in sulphuric acid using ascorbic/oxalic acid as a reductant**

Kaya M., KURŞUNOĞLU S.

2012 EPD Congress - TMS 2012 Annual Meeting and Exhibition, Orlando, FL, United States Of America, 11 - 15 March 2012, pp.271-287

**XVI. A review of the current hydrometallurgical recycling of spent AA and AAA size Zn-C and alkaline batteries**

Kaya M., Kursunoglu S.

European Metallurgical Conference, EMC 2011, Düsseldorf, Germany, 26 - 29 June 2011, vol.4, pp.1417-1436

## Supported Projects

Top S., Kurşunoğlu S., Altuner M., TUBITAK Project, Manganlı Demir Cevherinden Yüksek Tenörlü Mangan (Mn) ve Demir (Fe) Kazanımı İçin Bir Üretim Yönteminin Geliştirilmesi, 2019 - 2021

Kurşunoğlu S., Kaya M., EU Supported Other Project, Integrated eco-technology for a selective recovery of base and precious metals in Cu and Pb mining by-products (Total Budget: 1 Million Euro), 2018 - 2021

Kurşunoğlu S., Kaya M., TUBITAK Project, Laterit Liç Çözeltisinden Sinerjik Solvent Ekstraksiyon (SSX) Yöntemi Kullanılarak Nikel ve Kobalt Kazanımı, 2017 - 2020

## Memberships / Tasks in Scientific Organizations

AusIMM The Minerals Institute, Australia, Member, 2012 - Continues

MADEN MÜHENDİSLERİ ODASI, Member, 2007 - Continues

## Scientific Refereeing

Resources and Environmental Economics, Other Indexed Journal, July 2019

TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, Journal Indexed in SCI-E, July 2019

PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, Journal Indexed in SCI-E, June 2019

METALLURGICAL RESEARCH & TECHNOLOGY, Journal Indexed in SCI-E, May 2019

Mining, Metallurgy & Exploration, Journal Indexed in SCI-E, March 2019

Physicochemical Problems Of Mineral Processing, Journal Indexed in SCI-E, March 2019

Iranian Journal of Chemistry & Chemical Engineering-International English Edition (IJCCE), SCI Journal, February 2019

Iranian Journal of Chemistry & Chemical Engineering-International English Edition (IJCCE), Journal Indexed in SCI-E, February 2019

METALLURGICAL RESEARCH & TECHNOLOGY, Journal Indexed in SCI-E, January 2019

Resources and Environmental Economics, Other Indexed Journal, January 2019  
Journal of Hazardous Materials, SCI Journal, January 2019  
Mining, Metallurgy & Exploration, SCI Journal, January 2019  
Mining, Metallurgy & Exploration, SCI Journal, December 2018  
Journal of Hazardous Materials, SCI Journal, December 2018  
Physicochemical Problems of Mineral Processing, SCI Journal, October 2018  
MINERALS, SCI Journal, July 2018  
Vacuum, SCI Journal, June 2018  
Physicochemical Problems Of Mineral Processing, Journal Indexed in SCI-E, May 2018  
Waste Management, SCI Journal, May 2018  
Physicochemical Problems of Mineral Processing, SCI Journal, April 2018  
Physicochemical Problems of Mineral Processing, SCI Journal, April 2018  
Physicochemical Problems of Mineral Processing, SCI Journal, March 2018  
Physicochemical Problems of Mineral Processing, SCI Journal, March 2018  
Iranian Journal of Chemistry & Chemical Engineering-International English Edition (IJCCE), SCI Journal, February 2018  
Physicochemical Problems of Mineral Processing, SCI Journal, February 2018  
Iranian Journal of Chemistry & Chemical Engineering-International English Edition (IJCCE), SCI Journal, January 2018  
Physicochemical Problems of Mineral Processing, SCI Journal, November 2017  
Journal of Hazardous Materials, SCI Journal, October 2017  
Mineral Processing & Extractive Metallurgy Review, SCI Journal, October 2017  
International Journal of Minerals, Metallurgy and Materials. , SCI Journal, September 2017  
International Journal of Minerals, Metallurgy and Materials, SCI Journal, July 2017  
International Journal of Minerals, Metallurgy and Materials, SCI Journal, February 2017  
Separation Science and Technology, SCI Journal, February 2017  
International Journal of Minerals, Metallurgy and Materials, SCI Journal, December 2016  
International Journal of Minerals, Metallurgy and Materials, SCI Journal, October 2016  
International Journal of Minerals, Metallurgy and Materials, SCI Journal, August 2016  
Environmental Technology , SCI Journal, July 2016  
International Journal of Minerals, Metallurgy and Materials, SCI Journal, April 2016  
International Journal of Minerals, Metallurgy and Materials, SCI Journal, July 2015  
Journal of Hazardous Materials , SCI Journal, June 2015  
Hydrometallurgy, SCI Journal, June 2015  
Environmental Technology , SCI Journal, March 2015  
Asia-Pacific Journal Of Chemical Engineering, SCI Journal, June 2014  
Physicochemical Problems of Mineral Processing , SCI Journal, May 2014

## **Edit Congress and Symposium Activities**

XVI International Mineral Processing Symposium, Attendee, Antalya, Turkey, 2018  
XVII Balkan Mineral Processing Congress, Attendee, Antalya, Turkey, 2017  
XV International Mineral Processing Symposium, Attendee, İstanbul, Turkey, 2016

## **Citations**

Total Citations (WOS):51  
h-index (WOS):5

## **Scholarships**

2214-A YURTDIŐI DOKTORA SIRASI ARAŐTIRMA BURSUS / Western Australian School of Mines, Department of Extractive Metallurgy & Minerals Engineering, TUBITAK, 2015 - Continues  
YÜKSEK LİSANS SIRASI ARAŐTIRMA BURSUS / Western Australian School of Mines, Department of Extractive Metallurgy & Minerals Engineering, YOK, 2010 - Continues

## **Awards**

KURŐUNOĐLU S., The Best PhD Thesis in Mining Engineering/Maden MühendisliĐi Alanında En İyi Doktora Tez Çalışması Ödülü, Turkish Mining Development Foundation/Yurt MadenciliĐinin Geliőtirme Vakfi, May 2017  
KURŐUNOĐLU S., MADEN MÜHENDİSLİĐİ BÖLÜM 2. sı-Not Ortalaması: 3.37/4/ HONOURS DEGREE- Score: 3.37/4,  
ESKİŐEHİR OSMANGAZİ ÜNİVERSİTESİ, June 2005  
KURŐUNOĐLU S., YÜKSEK ŐEREF ÖĐRENCİSİ, ESKİŐEHİR OSMANGAZİ ÜNİVERSİTESİ, May 2005

## **Non Academic Experience**

Business Establishment Private, Tem-Mer Mermer / Üretim Mühendisi