

Prof. YAVUZ ALI TOPKAYA

Personal Information

Email: topkaya@metu.edu.tr

Web: <https://avesis.metu.edu.tr/topkaya>

Advising Theses

- TOPKAYA Y. A., Optimisation of organic phase pre-neutralisation stage in purification studies with solvent extraction for MHP (mixed hydroxide precipitate) produced from Grdes laterite ore and investigation of its effect on extraction, Postgraduate, E.KAYA(Student), 2021
- ALTUN N. E., TOPKAYA Y. A., Investigation of the pre-concentration possibility of scandium ores, Postgraduate, Y.ALTINSEL(Student), 2018
- GRBZ R., TOPKAYA Y. A., Solvent extraction of scandium from pregnant leach solution of nickel laterites, Postgraduate, E.FERİZOĐLU(Student), 2017
- TOPKAYA Y. A., EXTRACTION OF SCANDIUM FROM A LATERITIC NICKEL-COBALT ORE BY MEANS OF HYDROMETALLURGICAL TECHNIQUES, Doctorate, Ő.KAYA(Student), 2016
- TOPKAYA Y. A., Investigation of the production of silicon nitride from Turkish rice husks, Postgraduate, B.YİĐİT(Student), 2014
- TOPKAYA Y. A., Optimization of ferronickel production from Sivrihisar nickel laterite ore, Doctorate, S.POURNADERI(Student), 2014
- TOPKAYA Y. A., Extraction of nickel and cobalt from lateritic ores by nitric acid /, Postgraduate, O.SAKA(Student), 2014
- TOPKAYA Y. A., Comparative study of high pressure and atmospheric acid leaching for the extraction of nickel and cobalt from refractory nickel laterite ores, Postgraduate, K.KORKMAZ(Student), 2014
- TOPKAYA Y. A., Pressure leaching of Caldag lateritic nickel ore, Postgraduate, M.ALİ(Student), 2013
- TOPKAYA Y. A., Pressure leaching of Sivrihisar-Yunusemre nickel laterites, Postgraduate, B.SEĐEN(Student), 2011
- TOPKAYA Y. A., High pressure acid leaching of Turkish laterites, Postgraduate, Ő.KAYA(Student), 2011
- TOPKAYA Y. A., Hydrometallurgical processing of lateritic nickel ores, Postgraduate, C.HAKKI(Student), 2010
- TOPKAYA Y. A., Recovery of zinc and lead from INKUR leach residues by using hydrometallurgical techniques, Postgraduate, A.RŐEN(Student), 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Recovery of Iron from Turkish and Iranian Red Muds**
ERAY S., KESKİNKILIĐ E., TOPKAYA Y. A., GEVECİ A.
JOM, vol.74, no.2, pp.456-464, 2022 (SCI-Expanded)
- II. **REDUCTION BEHAVIOR OF IRON IN THE RED MUD**
Eray S., Keskinilic E., Topkaya Y. A., Geveci A.
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.57, no.3, pp.431-437, 2021 (SCI-Expanded)
- III. **USE OF COLEMANITE IN FERRONICKEL SMELTING**
KESKİNKILIĐ E., Pournaderi S., GEVECİ A., TOPKAYA Y. A.
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.55, no.1, pp.1-8, 2019 (SCI-Expanded)
- IV. **Solvent extraction behaviour of scandium from lateritic nickel-cobalt ores using different organic reagents**

Ferizoglu E., Kaya S., Topkaya Y. A.

PHYSICO-CHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.54, no.2, pp.538-545, 2018 (SCI-Expanded)

- V. **Laboratory-scale smelting of limonitic laterite ore from Central Anatolia**
Pournaderi S., KESKİNKILIÇ E., GEVECİ A., TOPKAYA Y. A.
JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.117, no.7, pp.695-703, 2017 (SCI-Expanded)
- VI. **Volume combustion and mechanochemical syntheses of LaB₆**
Akgun B., Sevinc N., ÇAMURLU H. E., TOPKAYA Y. A.
INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, vol.55, no.4, pp.331-339, 2017 (SCI-Expanded)
- VII. **Investigation of Copper Losses to Synthetic Slag at Different Oxygen Partial Pressures in the Presence of Colemanite**
RÜŞEN A., Derin B., GEVECİ A., TOPKAYA Y. A.
JOM, vol.68, no.9, pp.2316-2322, 2016 (SCI-Expanded)
- VIII. **Effects of Some Additives on Copper Losses to Matte Smelting Slag**
RÜŞEN A., GEVECİ A., TOPKAYA Y. A., Derin B.
JOM, vol.68, no.9, pp.2323-2331, 2016 (SCI-Expanded)
- IX. **Pressure acid leaching of Caldag lateritic nickel ore: An alternative to heap leaching**
Onal M. A. R., TOPKAYA Y. A.
HYDROMETALLURGY, vol.142, pp.98-107, 2014 (SCI-Expanded)
- X. **Reducibility of nickeliferous limonitic laterite ore from Central Anatolia**
Pournaderi S., KESKİNKILIÇ E., GEVECİ A., TOPKAYA Y. A.
CANADIAN METALLURGICAL QUARTERLY, vol.53, no.1, pp.26-37, 2014 (SCI-Expanded)
- XI. **Mechanochemical and combustion synthesis of CeB₆**
Akgun B., SEVİNÇ N., ÇAMURLU H. E., Topkaya Y.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.104, no.4, pp.403-407, 2013 (SCI-Expanded)
- XII. **Minimization of copper losses to slag in matte smelting by colemanite addition**
Rusen A., GEVECİ A., TOPKAYA Y. A.
SOLID STATE SCIENCES, vol.14, pp.1702-1704, 2012 (SCI-Expanded)
- XIII. **Calcination characteristics of laterite ores from the central region of Anatolia**
KESKİNKILIÇ E., Pournaderi S., GEVECİ A., TOPKAYA Y. A.
JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.112, no.10, pp.877-882, 2012 (SCI-Expanded)
- XIV. **Investigation of effect of colemanite addition on copper losses in matte smelting slag**
Rusen A., GEVECİ A., TOPKAYA Y. A., Derin B.
CANADIAN METALLURGICAL QUARTERLY, vol.51, no.2, pp.157-169, 2012 (SCI-Expanded)
- XV. **High pressure acid leaching of a refractory lateritic nickel ore**
MUTLU KAYA S., TOPKAYA Y. A.
MINERALS ENGINEERING, vol.24, no.11, pp.1188-1197, 2011 (SCI-Expanded)
- XVI. **Mechanochemical and volume combustion synthesis of ZrB₂**
Akgun B., ÇAMURLU H. E., Topkaya Y., SEVİNÇ N.
INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, vol.29, no.5, pp.601-607, 2011 (SCI-Expanded)
- XVII. **Hydrometallurgical processing of nontronite type lateritic nickel ores by MHP process**
Kose C. H., TOPKAYA Y. A.
MINERALS ENGINEERING, vol.24, no.5, pp.396-415, 2011 (SCI-Expanded)
- XVIII. **Catalytic effect of alkaline earth oxides on carbothermic formation of hexagonal boron nitride**
ÇAMURLU H. E., Topkaya Y., SEVİNÇ N.
CERAMICS INTERNATIONAL, vol.35, no.6, pp.2271-2275, 2009 (SCI-Expanded)
- XIX. **Extraction of nickel from lateritic ores at atmospheric pressure with agitation leaching**
Buyukakinci E., TOPKAYA Y. A.

- HYDROMETALLURGY, vol.97, pp.33-38, 2009 (SCI-Expanded)
- XX. **Rare earth double sulfates from pre-concentrated bastnasite**
Kul M., TOPKAYA Y. A., KARAKAYA İ.
HYDROMETALLURGY, vol.93, pp.129-135, 2008 (SCI-Expanded)
- XXI. **Zinc and lead extraction from Cinkur leach residues by using hydrometallurgical method**
Rusen A., Sunkar A. S., TOPKAYA Y. A.
HYDROMETALLURGY, vol.93, pp.45-50, 2008 (SCI-Expanded)
- XXII. **Recovery of germanium and other valuable metals from zinc plant residues**
Kul A., TOPKAYA Y. A.
HYDROMETALLURGY, vol.92, pp.87-94, 2008 (SCI-Expanded)
- XXIII. **Formation of TiB₂ by volume combustion and mechanochemical process**
Bilgi E., ÇAMURLU H. E., Akgun B., Topkaya Y., SEVİNÇ N.
MATERIALS RESEARCH BULLETIN, vol.43, no.4, pp.873-881, 2008 (SCI-Expanded)
- XXIV. **Effect of calcium carbonate addition on carbothermic formation of hexagonal boron nitride**
ÇAMURLU H. E., SEVİNÇ N., Topkaya Y.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.28, no.3, pp.679-689, 2008 (SCI-Expanded)
- XXV. **Desulphurization characteristics of ladle furnace slags of a low sulphur steel**
Keskinkilic E., Geveci A., Topkaya Y. A.
CANADIAN METALLURGICAL QUARTERLY, vol.46, no.4, pp.391-396, 2007 (SCI-Expanded)
- XXVI. **Role of boron carbide in carbothermic formation of hexagonal boron nitride**
Camurlu H. E., Sevinc N., Topkaya Y.
JOURNAL OF MATERIALS SCIENCE, vol.41, no.15, pp.4921-4927, 2006 (SCI-Expanded)
- XXVII. **Slag treatment at Kardemir integrated iron and steel works**
Topkaya Y., Sevinc N., Gunaydin A.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.74, pp.31-39, 2004 (SCI-Expanded)
- XXVIII. **Sulfuric acid leaching of Turkish chromite concentrate**
Geveci A., Topkaya Y., Ayhan E.
MINERALS ENGINEERING, vol.15, no.11, pp.885-888, 2002 (SCI-Expanded)
- XXIX. **Acid curing and baking of bastnaesite ore and concentrate**
Topkaya Y., Akkurt S.
RARE EARTHS '98, pp.530-536, 1999 (SCI-Expanded)
- XXX. **LEACHING BY FERRIC SULFATE OF RAW AND CONCENTRATED COPPER-ZINC COMPLEX SULFIDE ORES**
BUTTINELLI D., LAVECCHIA R., POCHETTI F., GEVECI A., GURESIN N., TOPKAYA Y.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.36, pp.245-257, 1992 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Smelting Studies for Recovery of Iron from Red Mud**
KESKİNKILIÇ E., Pournaderi S., GEVECI A., TOPKAYA Y. A.
10th International Symposium on High-Temperature Metallurgical Processing, San-Antonio, Northern Mariana Islands, 01 January 2019, pp.489-499
- II. **Solvent extraction of scandium from lateritic nickel- cobalt ores using different organic reagents**
Ferizoglu E., Kaya S., Topkaya Y. A.
Mineral Engineering Conference (MEC), Swieradow Zdroj, Poland, 25 - 28 September 2016, vol.8
- III. **A STUDY ON THE CHARACTERIZATION OF NICKEL LATERITES OF CENTRAL ANATOLIA**
KESKİNKILIÇ E., Pournaderi S., GEVECI A., TOPKAYA Y. A.
7th International Symposium on High-Temperature Metallurgical Processing held during TMS 145th Annual Meeting and Exhibition, Tennessee, United States Of America, 14 - 18 February 2016, pp.403-410
- IV. **PRODUCTION OF CRUDE FERRONICKEL FROM SIVRIHISAR LATERITE ORES OF TURKEY**

KESKİNKILIÇ E., Pournaderi S., GEVECİ A., TOPKAYA Y. A.

4th International Symposium on High-Temperature Metallurgical Processing held during the 142nd TMS Annual Meeting and Exhibition, San-Antonio, Northern Mariana Islands, 3 - 07 March 2013, pp.453-460

V. STUDY OF CERTAIN PARAMETERS IN LABORATORY-SCALE SMELTING OF SIVRIHISAR LATERITE ORES OF TURKEY

KESKİNKILIÇ E., Pournaderi S., GEVECİ A., TOPKAYA Y. A.

3rd International Symposium on High-Temperature Metallurgical Processing held during the held during the TMS 141st Annual Meeting & Exhibition, Florida, United States Of America, 11 - 15 March 2012, pp.491-498

VI. CALCINATION BEHAVIOR OF SIVRIHISAR LATERITE ORES OF TURKEY

KESKİNKILIÇ E., Pournaderi S., GEVECİ A., TOPKAYA Y. A.

2nd International Symposium on High-Temperature Metallurgical Processing held during the TMS 140th Annual Meeting & Exhibition, California, United States Of America, 27 February - 03 March 2011, pp.319-326

VII. Production of rare earth ferrosilicide alloy

TOPKAYA Y. A., GEVECİ A., Turgay O.

Sohn International Symposium on Advanced Processing of Metals and Materials, California, United States Of America, 27 - 31 August 2006, pp.371-383

VIII. Desulfurization in the ladle furnace using industrial slags

GEVECİ A., Keskinilic E., TOPKAYA Y. A.

Sohn International Symposium on Advanced Processing of Metals and Materials, California, United States Of America, 27 - 31 August 2006, pp.317-319

IX. Production of boron nitride by carbothermic and mechanochemical methods, and nanotube formation

Camurlu H., Aydogdu A., Topkaya Y., Sevinc N.

Conference of the NATO-Advanced-Study-Institute on Nanoengineered Nanofibrous Materials, Belek-Antalya, Turkey, 1 - 12 September 2003, vol.169, pp.115-120

X. Recovery of rare earths from a bastnaesite preconcentrate

Topkaya Y., Kul M., Karakaya I.

Symposium on Rare Earths and Actinides held during the 2000 TMS Annual Meeting, Tennessee, United States Of America, 12 - 16 March 2000, pp.11-16

XI. Oxidative pressure leaching of Cayeli zinc sulphide concentrate

Guresin N., Topkaya Y., Geveci A.

6th International Mineral Processing Symposium, KUSADASI, Turkey, 24 - 26 September 1996, pp.525-530

XII. METALLURGICAL EXTRACTION OF RARE-EARTH ELEMENTS FROM BEYLIKAHIR COMPLEX ORE
TOPKAYA Y., AKKURT S., OZBAYOGLU G.

5th International Mineral Processing Symposium, CAPPADOCIA, Turkey, 6 - 08 September 1994, pp.283-288

Supported Projects

TOPKAYA Y. A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

TOPKAYA Y. A., Project Supported by Higher Education Institutions, Hidrometalurjik Tekniklerle Lateritik Bir Nikel-Kobalt Cevherinden Skandiyum Ekstraksiyonu, 2014 - 2014

TOPKAYA Y. A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

TOPKAYA Y. A., KORKMAZ K., Project Supported by Higher Education Institutions, REFRAKTER LATERİTİK NİKEL CEVHERLERİNDEN NİKEL VE KOBALTIN EKTRASYONU, 2013 - 2013

TOPKAYA Y. A., SAKA O., Project Supported by Higher Education Institutions, NİKEL VE KOBALTIN LATERİTİK CEVHERLERDEN NİTRİK ASİT İLE EKSTRAKSİYONU, 2013 - 2013

TOPKAYA Y. A., POURNADERI S., Project Supported by Higher Education Institutions, PYROMETALLURGICAL NICKEL EXTRACTION FROM TURKISH OXIDE TYPE NICKEL ORES, 2013 - 2013

TOPKAYA Y. A., ALPAY B. Y., Project Supported by Higher Education Institutions, TÜRK PİRİNÇ KABUKLARINDAN SİLİSYUM NİTRÜR ÜRETİMİNİN ARAŞTIRILMASI, 2013 - 2013

TOPKAYA Y. A., ALPAY B. Y., Project Supported by Higher Education Institutions, TÜRK PİRİNÇ KABUKLARINDAN SİLİSYUM NİTRÜR ÜRETİMİNİN ARAŞTIRILMASI, 2013 - 2013

TOPKAYA Y. A., Project Supported by Higher Education Institutions, HİDROMETALURJİK TEKNİKLERLE LATERİTİK BİR NİKEL-KOBALT CEVHERİNDEN SKANDİYUM EKSTRAKSİYONU, 2013 - 2013

TOPKAYA Y. A., pournaderi s., Project Supported by Higher Education Institutions, Sivrihisar Nikel Laterit Cevherinden Ferronikel Üretiminin Optimizasyonu Ve Nikel Verimini Artırmak İçin Bor Bileşiklerinin Kullanımı, 2012 - 2013

TOPKAYA Y. A., Project Supported by Higher Education Institutions, Gümüşhane-Midi Sfelarit Konsantresinden Çinkonun Ekstraksiyonu Ve Kazanımının Optimizasyonu, 2012 - 2012

TOPKAYA Y. A., Project Supported by Higher Education Institutions, Eskişehir - Sivrihisar Lateritik Nikel Cevherlerinin Kolonda Ve Otoklavda Yüksek Basınç Altında Liç Edilmesi Ve Nikel Kobalt Hidroksit Eldesi., 2010 - 2010

TOPKAYA Y. A., Project Supported by Higher Education Institutions, Lateritik Nikel Cevherlerinin Basınç Altında Liç Edilmesi Ve Nikel-Kobalt Hidroksit Eldesi, 2009 - 2009

Metrics

Publication: 42

Citation (WoS): 746

Citation (Scopus): 651

H-Index (WoS): 14

H-Index (Scopus): 13