

Prof.Dr. Cüneyt ARSLAN

Istanbul Technical University, Chemistry–Metallurgy Faculty
Metallurgical & Materials Engineering Department
34469 Maslak, Istanbul

Tel: (212) 285-3096

Fax: (212) 285-7178

E-mail: arslanc@itu.edu.tr

Birth date, place: 01.01.1958, Balıkesir, Turkey

Marital status: Married, one child

Foreign language: English



EDUCATION

- 1986 – 1991 : Columbia University (New York, U.S.A.), Ph.D.
1990 : Columbia University (New York, U.S.A.), M.Phil.
1984 – 1986 : Columbia University (New York, U.S.A.), M.Sc.
1980 – 1982 : I.T.U. Metallurgy Faculty, M.Sc.
1975 – 1980 : I.T.U. Metallurgy Faculty, B.Sc.

ACADEMIC

- 2002 – present: Professor, I.T.U. Chemistry-Metallurgy Faculty, Metallurgical & Materials Engineering Department
1995 – 2002 : Assoc.Prof., I.T.U. Chemistry-Metallurgy Faculty, Metallurgical & Materials Engineering Department
1991 – 1995 : Asst.Prof., I.T.U. Chemistry-Metallurgy Faculty, Metallurgical & Materials Engineering Department
1989 – 1990 : Research Assistant, Columbia University, New York, U.S.A.
1980 – 1982 : Research Assistant, I.T.U. Metallurgy Faculty

ADMINISTRATIVE

2012 – 2022 :	Director, I.T.U. Prof.Dr. Adnan Tekin Materials Science and Production Technologies Applied Research Center
2008 – 2014 :	Member of Administrative Board, I.T.U. Chemistry-Metallurgy Faculty
2006 – 2009 :	Division Head, I.T.U. Chemistry-Metallurgy Faculty, Metallurgical & Materials Engineering Department, Extractive Metallurgy Division
2004 – 2006 :	Member of Transfer & Adaptation Commission, I.T.U. Chemistry-Metallurgy Faculty
2000 – 2003 :	Member of ABET Commission, I.T.U. Metallurgical & Materials Engineering Department
2000 – 2001 :	Vice Chair, I.T.U. Metallurgical & Materials Engineering Department
1998 – 2001 :	Member of Administrative Board, I.T.U. Chemistry-Metallurgy Faculty
1995 – 2001 :	Member of Scholarship Commission, I.T.U. Chemistry-Metallurgy Faculty

1992 – 1995 : Member of Internship Commission I.T.U. Chemistry-Metallurgy Faculty

A W A R D S & F E L L O W S H I P S

1990 – 1991 : William Campbell Fellowship, Henry Krumb School of Mines,
Columbia University, New York, U.S.A.

1983 – 1989 : Fellowship to study abroad for pursuing Ph.D. degree,
Ministry of Education of Turkish Republic

M E M B E R o f

- TMMOB Chamber of Metallurgical Engineers (1980 – present)
- TMS of AIME (1985 – 1991)
- The Electrochemical Society (1985 – 1991)

A C A D E M I C A C T I V I T I E S

Congress / Conference / Symposium Organized

- ICAM 2015, 12th International Congress for Applied Mineralogy, Organizing Committee Member and Secretary, August 10-12, 2015, Istanbul Technical University, Istanbul, Turkey (www.icam2015.org)
- Workshop on Energy and Emission Control in Istanbul and Its Surroundings, Organizer, 17 April 2015, Istanbul Technical University, Faculty of Mines (<http://www.isteek.org/calistay/>)
- 15th International Metallurgy and Materials Congress, Member of Organizing Committee, 11-13 November 2010, Tuyap Fair and Congress Center, Istanbul.
- 14th International Metallurgy and Materials Congress, Chair of the Organization Committee, 16-18 October 2008, Tuyap Fair and Congress Center, Istanbul.

Courses Instructed

- Fundamentals of Transport Phenomena (English)
- Mass and Energy Balance (English)
- Experimental Approach to Electrometallurgy (English)
- Simulation of Metallurgical Processes (English)
- Transport Phenomena for Metallurgists (Graduate course, English)
- Modeling of Extractive Metallurgical Processes (Graduate course, English)

- Extractive Metallurgy Lab.
- Design & Material Selection
- Material Science (Bahçeşehir University, Graduate course / 2009, 2010)

Master's and Ph.D. Theses administered

- **Duygu Tuluk**, (M.Sc.), “Boron Carbide Effect on PMMA”, (*Co-Advisor: Prof.Dr. Nilgün Baydoğan*), January 2023.
- **Merih Anıl Emir**, (M.Sc.), “Investigation of the effects of different alkali resources used as melting agents on the technological properties of ceramic wall tiles”, June 2020.
- **Selda Nayir**, (Ph.D.), “Cold sintering process on molybdenum disilicite/graphite composite electrodes”, June 2020.
- **Hale Tuğral Arslan**, (Ph.D.), “Hydrothermal growth of ZnO nanowires enhanced characteristic properties”, March 2020. (*Co-Advisor: Prof.Dr. Nilgün Baydoğan*)
- **Mazhar Ümit Büyükfırat**, (Ph.D.), “Shortening the Heat Treatment Processes of Extrusion Molds with Subzero Heat Treatment and Extension of Mold Life with PVD Coating, August 2019.
- **Raşit Sezer**, (Ph.D.), Al-Sr master alloy production from domestic celestite ore and investigating its properties, August 2018.
- **Emre Ulaştı**, (M.Sc.), Investigation of production parameters on mechanical properties of thermo-mechanical rolled S700MC steels, June 2018.
- **Tayfun Bel**, (Ph.D.), Multi-scale self-healing nanocomposite shielding material for aerospace, January 2018. (*Co-Advisor: Prof.Dr. Nilgün Baydoğan*)
- **Ayşegül Bilen**, (M.Sc.), Strontium carbonate production from local celestite concentrate via hydrometallurgical processes, December 2017.
- **Begüm Ucun**, (M.Sc.), Improving the process of coating HNS-IV explosive with a binder, September 2015.
- **Özgün Ünal**, (M.Sc.), Recovery of metallic values that RAM chips contain via hydrometallurgical routes, July 2015.
- **Mahmut Sefa Berke**, (M.Sc.), Extraction of the lanthanide group metals that Eskişehir-Beylikahır complex ore contain, from thorium and uranium via metallurgical processes, November 2014.

- **Emre Yılmaz**, (M.Sc.), Optimization of process parameters for recovering the metallic values from dental amalgam wastes, August 2014.
- **Erdem Kılıçaslan**, (M.Sc.), Production of manganese sulfate solution by leaching high carbon ferromanganese and process optimization, June 2013.
- **Enis Sevim**, (M.Sc.), Optimization of processes used for the purification of leach solutions obtained in hydrometallurgical manganese production, June 2013.
- **Elvan Ekiz**, (M.Sc.), Recovery of valuable metals from copper converter slags, May 2009.
- **A. Gamze Onuk**, (M.Sc.), Effect of catholyte flowrate on current efficiency in electrolytic chromium production from synthetically prepared Cr-alum solution, January 2007.
- **Ali Öztürk**, (M.Sc.), An alternative method to beneficiate the flue dusts of copper refining furnace, May 2005.
- **Burak Aksoylu**, (M.Sc.), Copper refining electrolysis at high current densities, May 2003.
- **Gökhan Orhan**, (Ph.D.), De-metallization of galvanic industries' waste solutions in high convection electrolysis cells, May 2001.
- **Murat Çınarlı**, (M.Sc.), Removal of iron from manganese solutions and optimization of process variables, February 1997.
- **Ahmet Demir**, (M.Sc.), Evaluation of Denizli-Tavas manganese ores via acidic leaching and optimization of process parameters, June 1996.
- **Murat Ateş**, (M.Sc.), Product and process optimization in pressure casting via OHTEA technique, June 1995.
- **Gökhan Orhan**, (M.Sc.), Investigating the possibility of metallic chromium powder production via aluminothermy, September 1994.

PROJECTS

- 2015 – 2017: Director, “Production of Al-Sr master alloy for aluminum casting industry from domestic celestite ore”, TUBITAK 1001, Project no: 115M631.
- 2014 – 2015: Director, “Developing a new system for cleaning diesel exhaust filters of public transportation vehicles in Istanbul”, Istanbul Development Agency, ISTKA, ISTKA-2014/EVK.
- 2013 – 2014: Director, “An education program for the workers of precious metal processing and recovery plants and engineers who inspect these plants on behalf of public”, ISTKA, ISTKA-2012/YEK-48.

- 2011 – 2012: Director, “Development of new generation, boron doped, $\text{LiM}_x\text{B}_y\text{O}$ (M= Fe, Mn, Ni) based cathode material for lithium ion batteries via ultrasonic spray pyrolysis technique”, BOREN 2011-Ç0271.
- 2006 – 2009: Researcher, “Fosgen removal by infrared laser during the production of pure boron trichloride suitable for the production of metallic boron via CVD technique”, TUBITAK 106M087.
- 2005 – 2007: Director, “Investigation of the electrolytic chromium production from domestic chromite ore and/or ferrochrome and modeling the process”, TUBITAK 105M073.
- 2004 – 2005: Director, “An alternative method to beneficiate the flue dusts of copper refining furnace”, ITU BAP (ITU, Scientific Researches Unit)
- 1998 – 2000: Director, “De-metallization of galvanic industries’ waste solutions in high convection electrolysis cells”, ITU BAP (ITU, Scientific Researches Unit)
- 1997 – 1998: Director, “Removal of iron from manganese solutions and optimization of process variables”, ITU BAP (ITU, Scientific Researches Unit)
- 1996 – 1997: Director, “Evaluation of Denizli-Tavas manganese ores via acidic leaching and optimization of process parameters”, ITU BAP (ITU, Scientific Researches Unit)
- 1994 – 1995: Director, “Investigating the possibility of metallic chromium powder production via aluminothermy”, ITU BAP (ITU, Scientific Researches Unit)
- 1988 – 1989: Researcher, Columbia University, “Metallic chromium production via molten salt electrolysis technique”, A project of Elkem Metals Company, Ohio, U.S.A.
- 1987 – 1988: Researcher, Columbia University “Rehabilitation of Williamsburg Bridge Wires”, A project of New-York Municipality

PUBLICATIONS

Theses

- Ph.D. Thesis: Modeling the Performance of Aqueous Chromium Electrowinning Cells, Columbia University, New York, Thesis Advisor: Professor Paul F. DUBY, May 1991.
- M.Sc. Thesis: The Effect of Methanol Addition in Zinc Electrowinning, Columbia University, New York, Thesis Advisor: Professor Paul F. DUBY, December 1985.
- M.Sc. Thesis: Beneficiation of Karadeniz Copper Works’ slags via acid baking method, ITU Metallurgy Faculty, Thesis Advisor: Prof.Dr. Fuat Yavuz Bor, 1982.
- B.Sc. Thesis: Recovery of the salts used in aluminum electrolysis cells, ITU Metallurgy Faculty, Thesis Advisor: Prof.Dr. Fuat Yavuz Bor, 1980.

Papers – *International*

1. Arslan F., Perek K.T., **Arslan C.**, Çuhadar İ.E., Altun A., “Studies on Acidic Leaching of Waste Mobile Phones”, International Journal of Mineral Processing and Extractive Metallurgy. Vol.7, Issue 2, June 2022, pp. 36-42, doi:10.11648/j.ijmpem.20220702.11
2. Tuluk D., Gül F.B., **Arslan C.**, Baydoğan N., “The behaviour of boron carbide (B₄C) powder on borax/pmma composite surface”, Journal of Nanomaterials & Molecular Nanotechnology, Volume 10, ISSN: 2324-8777, Joint Event on 33rd Nano Congress for Future Advancements & 12th World Congress on Chemistry, April 28, 2021, Webinar, Keynote ([link](#))([PDF](#))
3. **Arslan C.**, Gürmen S., Arslan F., Onuk A.G., “Lab-scale chromium electrowinning in a diaphragm-type cell: effect of anode material and the head (h), SCIREA International Journal of Metallurgical Engineering, Vol.5(1), Feb.2022, pp.1-14, open-access: ([link](#)) DOI: 10.54647/metallurgical45024.
4. Uysal C., Ertürk S., Arslan F., **Arslan C.** “Recovery of Metallic Values in Smart Cards”, Research & Development in Material Science, 16 (1), pp.1775-1778, (2021), DOI: [10.31031/RDMS.2021.16.000878](#) (short communication)
5. Tuğral Arslan H., **Arslan C.**, Baydoğan N., “The effects of the curing parameters of the hydrothermal solution on the characteristic properties of ZnO nanowires”, Journal of Optics, (2021), <https://doi.org/10.1007/s12596-021-00757-0>
6. Sezer R. Hızlı İ.G., Bilen A., Ertürk S., Dışpınar D., **Arslan C.**, “Metallothermic Production of Aluminum–Strontium Master Alloy for Modification of Silicon”, Metallography, Microstructure, and Analysis, 9, 833–840 (2020). <https://doi.org/10.1007/s13632-020-00697-4> WOS:000589996700002
7. Sezer R., Bilen A., Hızlı İ.G., Ertürk S., **Arslan C.**, “Effects of Furnace Slope and Rotational Speed on the Carbothermic Reduction of Celestite in a Laboratory-Scale Rotary Kiln Furnace”. Mining, Metallurgy & Exploration, vol. 37, 1273–1278 (2020). <https://doi.org/10.1007/s42461-020-00223-8> WOS:000530973500001
8. Perek K.T., Benli B., **Arslan C.**, Arslan F., “Recovery of ZnO from Lead-Zinc Flotation Tailings by Hydrometallurgical Processes –XRD, SEM, and AFM Studies”, Journal of Mining and Metallurgy, 56 A (1), pp.23-35, (2020), DOI: [10.5937/JMMA2001023P](#)
9. Tuğral Arslan H., **Arslan C.**, Baydoğan N., “Effect of Hydrothermal Solutions on Optical and Electrical Properties of ZnO Nanowires Grown on a ZnO: Al Seed Layer for Improved Mechanical Performance”, Journal of Nanoelectronics and Optoelectronics, 15 (3), 2020, pp. 307-315, DOI: [10.1166/jno.2020.2748](#), WOS:000541477900001
10. Türk T., Alp İ., Sezer R., **Arslan C.**, “Removal of arsenic from water using copper slag”, Journal of the Southern African Institute of Mining and Metallurgy, vol.120, issue 5, pp. 313-318, May 2020, DOI: [10.17159/2411-9717/766/2020](#)
11. Tuğral Arslan H., Üper O., Özdurmuşoğlu T., **Arslan C.**, Baydoğan N., “Optical Model of Sol-Gel Derived Al ZnO Thin Film”, Acta Scientific Ophthalmology, Vol. 2, No. 10, 2019, pp.12-15, ISSN: 2582-3191
12. Bel T., **Arslan C.**, Baydoğan N., “Radiation shielding properties of poly (methyl methacrylate) / colemanite composite for the use in mixed irradiation fields of neutrons and gamma rays”, Materials Chemistry and Physics, Vol. 221, 1 January 2019, Pages 58-67. <https://doi.org/10.1016/j.matchemphys.2018.09.014>

13. Sezer R., **Arslan C.**, “Mechano-chemical conversion of celestite in highly concentrated sodium carbonate media”, *Physicochemical Problems of Mineral Processing*, 55 (2), 2019, 324-335. DOI: [10.5277/ppmp18134](https://doi.org/10.5277/ppmp18134). (<https://bit.ly/2RSYG1U>)
14. Sezer R., Bilen A., Yılmaz E., Ertürk S., **Arslan C.**, “Investigation of leaching characteristics of celestite concentrate in acidic media and SrCO₃ production via precipitation”, *Journal of the Faculty of Engineering and Architecture of Gazi University*, 34 (3), 2019, 1409-1416. DOI: [10.17341/gazimmfd.460538](https://doi.org/10.17341/gazimmfd.460538).
15. Bel T., **Arslan C.**, Baydoğan N., “Production of PMMA / Microsphere / Montmorillonite Nanocomposite and PMMA / Microsphere / Halloysite Nanocomposite by Atom Transfer Radical Polymerization Technique and Comparative Investigation of Mechanical Properties” (*PMMA / mikroküre / montmorillonite nanokompozit ve PMMA / mikroküre/halloysite nanokompozitin atom transfer radikal polimerizasyon tekniği ile üretilmesi ve mekanik özelliklerinin karşılaştırmalı olarak incelenmesi*), *Journal of the Faculty of Engineering and Architecture of Gazi University*, 34 (2), 2019, 687-700, DOI: [10.17341/gazimmfd.416525](https://doi.org/10.17341/gazimmfd.416525)
16. Çelik C., **Arslan C.**, Arslan F., “Recycling of waste electrical cables”, *Material Science and Engineering International Journal*, 3 (4), 2019, 107-111. ISSN: 2574-9927.
17. Yılmaz E., Ertürk S., **Arslan C.**, Arslan F., “Silver recovery from dental amalgam wastes”, *Material Science and Engineering International Journal*, 3 (5), 2019, 172-176. ISSN: 2574-9927. (<https://medcraveonline.com/MSEIJ/MSEIJ-03-00109.pdf>)
18. Nayir S., Waryoba D.R., Rajagopalan R., **Arslan C.**, Randall C.A., “Cold Sintering of a Covalently Bonded MoS₂/Graphite Composite as a High Capacity Li-Ion Electrode”, *ChemNanoMat*. 4 (10), 2018, 1088-1094, ISSN: 2199692X, DOI: [10.1002/cnma.201800342](https://doi.org/10.1002/cnma.201800342).
19. Bel T., Çakar H., Yahya N., **Arslan C.**, Baydoğan N., “Investigation of the Bubble Effect in Lightweight PMMA Polymer”, *Defect and Diffusion Forum*, ISSN: 1662-9507, Vol. 380, pp 227-231, DOI:[10.4028/www.scientific.net/DDF.380.227](https://doi.org/10.4028/www.scientific.net/DDF.380.227), November 2017.
20. Sezer R., Hızlı G., Bilen A., Ertürk S., **Arslan C.**, “Effect of Mechanical Activation on Roasting of Celestite Ore”, *Yer Altı Kaynakları Dergisi, Journal of Underground Resources*, 6 (11), 2017, 53-59. (<https://dergipark.org.tr/tr/download/article-file/366499>)
21. Ebin B., Gürmen S., **Arslan C.**, Lindbergh G., “Electrochemical properties of nanocrystalline LiFe_xMn_{2-x}O₄ (x = 0.2–1.0) cathode particles prepared by ultrasonic spray pyrolysis method”, *Electrochimica Acta*, Vol. 76, 1, August 2012, pp. 368-374.
22. Ebin B., Gürmen S., **Arslan C.**, “Synthesis and Structural Characterization of LiZn_{0.5}Mn_{1.5}O₄ Cathode Materials”, *International Journal of Material Science and Electronics Research*, Vol. 1, No. 2, July-Dec. 2010, pp. 49-53.
23. Kartal G., Timur S., **Arslan C.**, “Effects of Process Current Density and Temperature on Electrochemical Boriding of Steel in Molten Salts”, *Journal of Electronic Materials*, Vol. 34, No.12, 2005, pp.1538-1542.
24. Gürmen S., Orhan G, **Arslan C.**, Timur S., “Copper Refining Electrolysis at High Current Densities”, *ARI - The Bulletin of the Istanbul Technical University*, Vol. 54, No.2, July 2004, pp.40-44.
25. **Arslan C.**, Arslan F., “Thermochemical Review of Jarosite and Goethite Stability Regions at 25 and 95°C”, *Turkish Journal of Engineering and Environmental Sciences*, 27, 2003, pp.45-52.

26. **Arslan C.**, Arslan F., “Recovery of copper, cobalt, and zinc from copper smelter and converter slags”, Hydrometallurgy, Vol. 67, (1), 2002, pp.1-7.
27. Orhan G., **Arslan C.**, Bombach H., Stelter M., “Nickel recovery from the rinse waters of plating baths”, Hydrometallurgy, Vol. 65, (1), 2002, pp.1-8.
28. Gürmen S., Timur S., **Arslan C.**, Duman İ., “Production of Pure Tungsten Oxide from Scheelite Concentrates”, Scandinavian Journal of Metallurgy, 31, (3), 2002, pp.221-229.
29. Çamcı L., Aydın S., **Arslan C.**, “Reduction of Iron Oxides in Solid Wastes Generated by Steelworks”, Turkish Journal of Engineering and Environmental Sciences, 26, 2002, pp.37-44.
30. Arslan F., **Arslan C.**, Çelik M.S., “Arsenic Removal through the Decrepitation of Colemanite Ores”, Powder Technology, 25 June 1999, Vol./Issue: 103/3, 260-264.
31. Orhan G., **Arslan C.**, “Investigating the Effects of Charge Components on Metallic Chromium Production via Aluminothermic Route with no External Energy”, Minerals & Metallurgical Processing, May 1999, Vol. 16, No.2, 62-64.
32. Gürmen S., Timur S., **Arslan C.**, Duman İ., “Acidic Leaching of Scheelite Concentrate and Production of Hetero-poly-tungstate Salt”, Hydrometallurgy, 51, (1999), 227-238.
33. **Arslan C.**, Duby P., “The Anodic Oxidation of Cr(III) to Cr(VI) in a Laboratory-Scale Chromium Electrowinning Cell”, Hydrometallurgy, 46, April 1997, pp.337-348.
[https://doi.org/10.1016/S0304-386X\(97\)00029-7](https://doi.org/10.1016/S0304-386X(97)00029-7)
34. **Arslan C.**, Orhan G., “Investigation of Chrome(VI) Oxide Production from Chromite Concentrates by Alkali Fusion”, International Journal of Mineral Processing, 50, (1997), pp.87-96. DOI: [10.1016/s0301-7516\(97\)00009-4](https://doi.org/10.1016/s0301-7516(97)00009-4)
35. Aydın S., Taptık Y., **Arslan C.**, “Scrap, Recycling and Steel Production -A General Perspective and Türkiye's Standpoint”, Ironmaking and Steelmaking, Vol. 23, No. 3, 1996, pp.242-246. [WOS:A1996VJ64900008](https://www.wos.kit.edu/WOS:A1996VJ64900008)
36. Aydın S., **Arslan C.**, Taptık Y., Dikeç F., “Turkish Iron and Steel Industry: Developments Within The Last 15 Years”, Steel World, No:1, 1996, pp.95-101.
37. Şirin B., Açma E., **Arslan C.**, Addemir O., “The Effect of Sulphur on Tungsten Recovery from Scheelite Concentrates by Alkali Fusion”, Canadian Metallurgical Quarterly, Vol. 33, No. 4, 1994, pp.313-318.
38. Oktaybaş C., Açma E., **Arslan C.**, Addemir O., “Kinetics of Copper Precipitation by H₂S from Sulfate Solutions”, Hydrometallurgy, 35, 1994, pp.129-137. DOI: [10.1016/0304-386X\(94\)90024-8](https://doi.org/10.1016/0304-386X(94)90024-8)

Papers – National

- Büyükfırat M.Ü., **Arslan C.**, “Improvement of wear resistance of extrusion dies by heat treatment and PVD coating method”, Metal Dünyası, No. 308, Feb. 2019, pp.61-65.
- Arslan F., **Arslan C.**, “Copper Production Processes (III)”, Copper Life, No:7, July/August 2006, pp.36-41/59-64.

- Arslan F., **Arslan C.**, “Copper Production Processes (II)”, Copper Life, No:5, April 2006, pp.38-47.
- Arslan F., **Arslan C.**, “Copper Production Processes (I)”, Copper Life, No:4, February 2006, pp.34-40.
- **Arslan C.**, “Lab-scale investigation of the mechanism of methanol addition in zinc electrolysis ”, Metalurji, No:93, December 1994, pp.47-54.
- Arslan F., **Arslan C.**, Ama E., “Alternative processes to the cyanide leaching used in gold and silver extraction”, Metalurji, No:85, August 1993, pp.57-65.
- Arslan F., **Arslan C.**, Ama E., “A general look to the beneficiation possibilities of Turkish gold ores”, Metalurji, No:79, November 1992, pp.43-52.
- Kellogg H.H. (author), **Arslan C.** (translated to Turkish), “Trends in non-ferrous pyrometallurgy II”, Metalurji, No:43, April 1986, pp.7-16.
- Kellogg H.H. (author), **Arslan C.** (translated to Turkish), “Trends in non-ferrous pyrometallurgy I”, Metalurji, No:42, February 1986, pp.5-18.

Books & Book Chapters

- Arslan F., **Arslan C.**, “Zeolit”, Endüstriyel Mineraller El Kitabı, G. Önal, E. Yüce, O. Kangal, D. Ergunalp, (Editörler), s.329-335, İstanbul Maden İhracatçıları Birlięi, Temmuz 2023, İstanbul.
- **Arslan C.**, Arslan F., “Antimuan”, Endüstriyel Mineraller El Kitabı, G. Önal, E. Yüce, I. Özpeker, A. Güney, (Editörler), s.9-14, İstanbul Maden İhracatçıları Birlięi, Ekim 1999, İstanbul.
- Arslan F., **Arslan C.**, “Nadir Toprak Metalleri”, Endüstriyel Mineraller El Kitabı, G. Önal, E. Yüce, I. Özpeker, A. Güney, (Editörler), s.143-149, İstanbul Maden İhracatçıları Birlięi, Ekim 1999, İstanbul.
- Türkiye Kurşun Envanteri, (Kollektif alıřma), A. Ekrem Yüce (Editör), İstanbul Maden İhracatçıları Birlięi, Temmuz 1998, İstanbul.
- Türkiye Bakır Envanteri, (Kollektif alıřma), A. Sirkeci (Editör), İstanbul Maden İhracatçıları Birlięi, Temmuz 1998, İstanbul.
- Türkiye inko Envanteri, (Kollektif alıřma), A. Güney (Editör), İstanbul Maden İhracatçıları Birlięi, Temmuz 1998, İstanbul.
- Addemir O., Ama E., **Arslan C.**, İNKO, Sistem Yayıncılık, İstanbul, Mart 1995, ISBN No: 975-7397-41-5.

- Ateşok G., **Arslan C.**, “Sampling of Coal”, Ch.15 in COAL, O. Kural (Editor), İstanbul, 1994, pp.207-214, ISBN No: 975-95701-1-4.
- Dikeç F., Ateşok G., **Arslan C.**, “Coking of Coal”, Ch.24 in COAL, O. Kural (Editor), İstanbul, 1994, pp.309-335, ISBN No: 975-95701-1-4.
- İ.T.Ü. ABET 2000 Terimler Sözlüğü, İTÜ ABET PROJESİ Terim Birliği Sağlama Komisyonu: Tulunay Y., Serarslan M.N., Devres O., **Arslan C.**, Gürbüz H., Aran N., Eskin N.

Patent Applications

- Nilgün Baydoğan, Ali Yılmaz, Tayfun Bel, Hassan Soleimani, Noorhana Yahya, Cüneyt Arslan, Hasan Gökçe, Dumitru Ulieru, “Poly (Methyl Methacrylate) Solution Synthesis For Enhanced Oil Recovery”, 2021.

Conference Proceedings

1. Arslan F., **Arslan C.**, Ilgın Ş., “Recovery of rare earth elements from secondary sources”, Proceedings of XIX - Mineral Processing Congress, May 28-31, 2023, Mitrovice, Kosovo, pp.351-360.
2. Arslan F., **Arslan C.**, “Importance of hydrological and geochemical studies in solution mining”, 17th International Mineral Processing Symposium, Dec.15-17, 2022, Istanbul Türkiye, pp.589-595.
3. Arslan F., **Arslan C.**, Yılmaz M.Y., “Iron removal from drinking and wastewaters by precipitate flotation”, 17th International Mineral Processing Symposium, Dec.15-17, 2022, Istanbul Türkiye, pp.861-868.
4. Arslan F., İlsever E., Can M.F., **Arslan C.**, Çelik M.S., “Removal of boron from wastewaters by membrane supported reverse osmosis system”, 17th International Mineral Processing Symposium, Dec.15-17, 2022, Istanbul Türkiye, pp.965-972.
5. Tuluk D., **Arslan C.**, Baydoğan N., “Investigation of Boron Carbide Behavior on Polymethylmethacrylic”, International Conference on Nuclear Technology, Radiation Safety and Advanced Technological Researches (ICNRA 2021), pp. 165, (2021)
6. Yılmaz E., **Arslan C.**, Arslan F., “Recovery of nickel from laterite leach solution by ion exchange resin”, International Mineral Processing Conference Eurasia 2019, IMPC-EURASIA 2019, 31.10.2019-2.11.2019, Antalya, 607-614, ISSN: 978-975-7946-44-1.
7. Arslan F., Çuhadar İ.E., Perek K.T., **Arslan C.**, Recycling of old mobile phones”, International Mineral Processing Conference Eurasia 2019, IMPC-EURASIA 2019, 31.10.2019-2.11.2019, Antalya, 747-756, ISSN: 978-975-7946-44-1.
8. Arslan F., **Arslan C.**, Hidrometalurji Tesisleri ve Yenilikler, “Cevher ve Kömür Hazırlama Tesislerinde Yenilikler, Denetim ve Maliyet Kontrolü”- Educational Seminar, İTÜ Vakfı Maçka Sosyal Tesisleri / İstanbul, June 24-25, 2019 (36 pages).

9. Yılmaz E., Sezer R., Ertürk S., **Arslan C.**, Arslan F., “Recovery of nickel from low concentrated solutions via chelating ion exchange resin”, 18th Balkan Mineral Processing Congress (BMPC 2019), Durres, Albania, May 23-26, 2019.
10. Sezer R., Yılmaz E., Ertürk S., **Arslan C.**, “Calcination of strontium carbonate in rotary kiln furnace”, 10th International Symposium on High-Temperature Metallurgical Processing, The Minerals, Metals & Materials Series, San Antonio, Texas, 10-14 March 2019, pp.591-597. DOI: 10.1007/978-3-030-05955-2_56.
11. Arslan F., Çuhadar İ.E., Perek K.T., **Arslan C.**, “Recovery of metals from end-of-life mobile phones by acidic leaching”, 16th International Mineral Processing Symposium, 23-25 October 2018, pp.499-504.
12. Bel T., Noorhana Y., Çimenoglu H., **Arslan C.**, Baydoğan N., “The examination of the changes in the magnetic properties of the poly(methyl methacrylate)”, ICFAS - ESTCON 2018, Vol. 1123, 15 Ağustos 2018, s. 12005, Invited Speaker, (<https://iopscience.iop.org/article/10.1088/1742-6596/1123/1/012005/pdf>).
13. Hızlı İ.G., Sezer R., Gürsoy Ö., Ertürk S., **Arslan C.**, Dışpınar D., “Production Of Strontium Modifier from Different Sources”, 19th International Metallurgy and Materials Congress (IMMC2018), İstanbul, Türkiye, October 25-27, 2018, pp.483.
14. Sezer R., Yılmaz E., Ertürk S., **Arslan C.**, "Kinetics of Thermal Decomposition of Strontium Carbonate", 1st International Technology Sciences and Design Symposium – ITESDES 2018, Giresun-Turkey, June 27-29, 2018, pp.433.
15. Yılmaz E., Sezer R., Ertürk S., **Arslan C.**, "Investigation the Reduction Behavior of Manganese Ore Pellets", 1st International Technology Sciences and Design Symposium – ITESDES 2018, Giresun-Turkey, June 27- 29, 2018, pp.432.
16. Sezer R., Yılmaz E., Akça S., Ertürk S., **Arslan C.**, "Recycling of Metallic Values from Gold Plated Brass Scrap", 1st International Technological Sciences and Design Symposium – ITESDES 2018, Giresun-Turkey, June 27-29, 2018, pp.453.
17. Yılmaz E., Sezer R., Ertürk S., **Arslan C.**, "Thermal Characterization of Manganese Concentrate", 1st International Technological Sciences and Design Symposium – ITESDES 2018, Giresun-Turkey, June 27-29, 2018, pp.452.
18. Hızlı G., Sezer R., Gürsoy Ö., Ertürk S., **Arslan C.**, Dışpınar D., "Production of Modifier for Al-Si Alloys", 1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük-Turkey, March 22-24, 2018, pp. 78-79, ISBN: 978-605-9554-16-9.
19. Ertürk S., Sezer R., **Arslan C.**, “Alumino-thermic Reduction of SrO and SrCO₃”, TMS 2018, 147th Annual Meeting & Exhibition, (poster presentation), March 11-15, 2018, Phoenix, USA. (<https://bit.ly/2pSsejA>)
20. Sezer R., Bilen A., Ertürk S., **Arslan C.**, “Optimization of Celestite Leaching by Using Response Surface Methodology”, TMS 2018, 147th Annual Meeting & Exhibition, March 11-15, 2018, Phoenix, USA.
21. Ulus A., Ekici H., İpek S.K., Ertürk S., **Arslan C.**, “Change of Slag Characteristics due to Chemical Composition and Refinement Process Parameters in Aluminum Alloys”, European Aluminium Congress 2017, Vol.1, 27-28 November, 2017, Düsseldorf, Germany.
22. Hızlı G., Bilen A., Sezer R., Ertürk S., **Arslan C.**, “Strontium Carbonate Precipitation with Ammonium Carbonate from Strontium Sulphide Solution”, XVIIth Balkan Mineral Processing Congress, BMPC 2017, pp.551-555, November 1-3, 2017, Antalya-Turkey.

23. Bilen A., Hızlı G., Sezer R., Ertürk S., **Arslan C.**, “Strontium Carbonate Precipitation from Strontium Sulfide Solution”, XVIIth Balkan Mineral Processing Congress, BMPC 2017, pp.543-550, November 1-3, 2017, Antalya, Turkey.
24. Yılmaz E., Ertürk S., Arslan F., **Arslan C.**, “Dental amalgam wastes: Properties, environmental effects and recycling processes”, XVIIth Balkan Mineral Processing Congress, BMPC 2017, pp.187-195, November 1-3, 2017, Antalya, Turkey.
25. Ekici H., Ulus A., Ertürk S., **Arslan C.**, Dağdelen E., "Alüminyum Sürekli Döküm Alaşımlarında Alaşım Kombinasyonuna Bağlı Olarak Curuf İçeriğinin Yapısal ve Elementel Analizi", 8. Alüminyum Sempozyumu, 5-6 Ekim 2017, İstanbul Fuar Merkezi, İstanbul.
26. Sezer R., Bilen A., Hızlı G., Ertürk S., **Arslan C.**, “Direct Conversion of Celestite to SrCO₃ by Wet Milling”, TMS 2017, 146th Annual Meeting & Exhibition Supplemental Proceedings, pp.609-614, 26 February - 3 March 2017, San Diego, California.
27. Ertürk S., Sezer R., Hızlı G., Bilen A., **Arslan C.**, “Roasting of Celestite in Laboratory Scale Rotary Furnace”, 8th International Symposium on High-Temperature Metallurgical Processing, pp.469-476, 26 February - 3 March 2017, San Diego, California.
28. Hızlı G., Bilen A., Sezer R., Ertürk S., **Arslan C.**, “Production of Strontianite from Celestite Ore in Carbonate Media”, 3rd Pan American Materials Congress, pp.607-613, 26 February - 3 March 2017, San Diego, California.
29. Hızlı G., Bilen A., Sezer R., Yılmaz E., Ertürk S., **Arslan C.**, “Investigating the Dissolution Characteristics of Strontium Sulfide”, 3rd Pan American Materials Congress, pp.539-545, 26 February - 3 March 2017, San Diego, California.
30. Sezer R., Hızlı G., Bilen A., Ertürk S., **Arslan C.**, “Effect of Mechanical Activation on Roasting of Celestite Ore”, International Black Sea Mining & Tunneling Symposium, Proceeding Book, November 2-4, 2016, Trabzon, Turkey.
31. Bilen A., Hızlı G., Sezer R., Ertürk S., **Arslan C.**, “Investigating the Dissolution of Celestite in BaCl₂ and MgCl₂ Medium”, International Black Sea Mining & Tunneling Symposium, Proceeding Book, November 2-4, 2016, Trabzon, Turkey. / *Selestit Mineralinin BaCl₂ ve MgCl₂ İçeren Ortamlarda Çözünürlüğünün Araştırılması*
32. Yılmaz E., Ertürk S., Arslan F., **Arslan C.**, “Recovery of Silver and Copper from Dental Amalgam Wastes Via Hydrometallurgical Processes”, TMS 2015, 144th Annual Meeting and Exhibition, March 15-19, 2015, Orlando, Florida.
33. Yılmaz E., Ertürk S., Arslan, F., **Arslan, C.**, “Recovery of Silver from Dental Amalgam Wastes Via Hydrometallurgical Processes”, (poster presentation), IMPS 2014, 14th International Mineral Processing Symposium and Exhibition, October 15-17, 2014, Kuşadası, Turkey.
34. Sevim E., Ertürk S., **Arslan C.**, “Oxidative and Carbonative Precipitation of Iron from Manganese Leach Solutions”, TMS 2014, 143rd Annual Meeting and Exhibition, February 16-20, 2014, San Diego, California.
35. Kılıçarslan E., Ertürk S., **Arslan C.**, “Leaching of High Carbon Ferromanganese in Acidic Medium”, (poster presentation), TMS 2014, 143rd Annual Meeting and Exhibition, February 16-20, 2014, San Diego, California.
36. Çelik C., Kokkılıç O., Eke K., Kangal M. O., **Arslan C.**, Arslan F., “Recovery of Copper and Plastics from Waste Electrical Cables”, International Mineral Processing Symposium, IMPS 2012, Oct. 10-12, 2012, Bodrum, Turkey.

37. Ebin B., Gürmen S., **Arslan C.**, “Synthesis of Nanocrystalline $\text{Cu}_3\text{B}_2\text{O}_6$ Particles by Ultrasonic Spray Pyrolysis Method”, TMS 2011, 140th Annual Meeting & Exhibition, San Diego, California, U.S.A., 27 February - 3 March 2011.
38. Ebin B., Gürmen S., **Arslan C.**, “Aerosol Route Synthesis of Lithium Borate Spheres Using Lithium Nitrate and Boric Acid Solution”, TMS 2011, 140th Annual Meeting & Exhibition, San Diego, California, U.S.A., 27 February - 3 March 2011.
39. Ebin B., Gürmen S., **Arslan C.**, “Preparation and Electrochemical Properties of Nanostructured Lithium Manganese Oxide Based Cathode Particles”, TMS 2011, 140th Annual Meeting & Exhibition, San Diego, California, U.S.A., 27 February - 3 March 2011.
40. Gürmen S., Ebin B., **Arslan C.**, “Synthesis of Nanocrystalline Lead Oxide Particles by Ultrasonic Spray Pyrolysis Method”, s. 407-410, PM2010, Powder Metallurgy World Congress & Exhibition, Florence/Italy, 10-14 October 2010.
41. Ebin B., Gürmen S., **Arslan C.**, “Synthesis and Structural Characterization of $\text{LiZn}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode Materials”, 06/2010, s. 249, NanoTR-VI, 6th Nanoscience and Nanotechnology Conference, İzmir, Türkiye, 14.06.2010 - 18.06.2010
42. Ebin B., Gürmen S., **Arslan C.**, “Ultrasonik Destekli Sol-Jel Yöntemiyle Üretilen CuO Nanoyapılarında Kristal Büyümesinin İncelenmesi”, 15. Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Türkiye, 11-13 Kasım, 2010.
43. Ebin B., Gürmen S., **Arslan C.**, “Preparation of Nanostructured Iron Oxide Particles via Ultrasonic Spray Pyrolysis”, TMS 2009, 138th Annual Meeting and Exhibition, San Francisco, U.S.A., 15-19 February 2009.
44. **Arslan C.**, Gürmen S., Duman İ., Aksoylu B., “Yüksek Akım Yoğunluklarında Bakır Rafinasyon Elektrolizinde Hücre Dizaynı”, 14. Uluslararası Metalurji ve Malzeme Kongresi, 16-19 Ekim 2008, İstanbul.
45. Yazıcı E., Ebin B., Gürmen S., **Arslan C.**, Özkal B., “Preparation of Silver Nanoparticles from Ultrasonic Spray Pyrolysis of Aqueous Silver Nitrate Solution”, NanoTR-IV, 4th Nanoscience and Nanotechnology Conference, I.T.U., İstanbul, Turkey, 9-13 June 2008.
46. Ebin B., Gürmen S., **Arslan C.**, “Synthesis of Porous Submicronic Iron/Iron Oxide Spherical Powders Formed by Nanoparticles Cluster via Ultrasonic Spray Pyrolysis”, NanoTR-IV, 4th Nanoscience and Nanotechnology Conference, I.T.U., İstanbul, Turkey, 9-13 June 2008.
47. Onuk G., Gürmen S., **Arslan C.**, “Effect of Different Anode Materials on Electrolysis of Chromium from Synthetic Chrome-alum Solution”, European Metallurgical Conference 2007, June 11-14, 2007, p. 2042-2043, Düsseldorf, Germany.
48. Onuk G., Gürmen S., **Arslan C.**, “Effect of Catholyte Flowrate on Current Efficiency of Electrolytic Chromium Production from Synthetic Cr-Alum Solutions”, 13. International Metallurgy and Materials Congress, 9-11 November 2006, İstanbul.
49. Arslan F., Giray Ç., Öztürk A., Kangal M.O., Orhan G., **Arslan C.**, “Evaluation of Copper Refining Furnace Dusts”, XXIII. International Mineral Processing Congress, IMPC 2006, 3-8 September, 2006, İstanbul, Vol. 2, pp. 1505-1510.
50. Güven A., Emre M., **Arslan C.**, Timur S., “Effect of Aging on Color Properties of Gold Alloys”, Proceedings of European Metallurgical Congress, September 18-21, 2005, Dresden, Germany.

51. Orhan G., Öztürk A., **Arslan C.**, “Recovery of Base and Heavy Metals from Copper Refining Furnace Dusts”, Proceedings of European Metallurgical Congress, September 18-21, 2005, Dresden, Germany.
52. Kahvecioğlu Ö., Ertürk S., **Arslan C.**, Timur S., “Silver Cementation from Nitrate Solutions onto Copper in Classical and Forced Convection Systems”, Proceedings of European Metallurgical Congress, September 18-21, 2005, Dresden, Germany.
53. Orhan, G., Gürmen, S., Güven A., **Arslan, C.**, “Elektrik Ark Fırını (EAF) Baca Tozlarının Hidrometalurjik Değerlendirilmesi”, 12. International Metallurgy and Materials Congress, 28 September - 2 October 2005, İstanbul.
54. Orhan G., Gürmen S., **Arslan C.**, “De-Metallization of Copper-Containing Industrial Wastewaters by Various Electrolysis Systems”, European Metallurgy Congress, 16-19 September 2003, Vol. 3, s. 921-933, Hannover, Germany.
55. Orhan G., **Arslan C.**, Gürmen S., Timur S., “Yıkama Sularından Elektrolitik Bakır Kazanımında pH Değerinin Etkisi”, 11. International Metallurgy and Materials Congress, 5-8 June, 2002, s. 686-693, İstanbul.
56. Gürmen S., Timur S., **Arslan C.**, Duman İ., “Effect of Grinding Method on Tungsten Efficiency in Chelate-added Leaching of Scheelite Concentrates”, 9th Balkan Mineral Processing Congress, Sep. 11-13, 2001, İstanbul.
57. Orhan G., **Arslan C.**, Timur S., Duman İ., “Recovery of Copper from the Copper Sulfate Containing Rinse Water”, 9th Balkan Mineral Processing Congress, Sep. 11-13, 2001, İstanbul.
58. Aydın S., Yücel O., **Arslan C.**, Köksal A., “The Present Situation of Ferroalloy Production and Consumption in Türkiye”, Proceedings of the 9th International Ferroalloys Congress, INFACON 9, pp. 544-549, June 3-6, 2001, Quebec City, Canada.
59. Gürmen S., Timur S., **Arslan C.**, Duman İ., “A New Alternative in Tungsten Production: Chelate-Added Acidic Leaching”, Proceedings of the 8th International Mineral Processing Symposium (IMPS-2000), pp. 467-471, October 16-18, 2000, Antalya.
60. Timur S., Gürmen S., Orhan G., **Arslan C.**, Duman İ., “Beneficiation of Brass Ashes”, XXI International Mineral Processing Congress, pp. C12a-27 - C12a-33, 23-27 July 2000, Rome, Italy.
61. **Arslan C.**, Arslan F., Demir A., “Sulphuric Acid Leaching of Manganese Carbonate Ores and Its Kinetics”, 10. International Metallurgy and Materials Congress, 24-28 May 2000, İstanbul.
62. **Arslan C.**, Arslan F., Demir A., “Acidic Leaching of Denizli-Tavas Region Manganese Ores”, 8th Balkan Mineral Processing Congress, Vol. 1, pp.345-351, September 14-18, 1999, Belgrade-Yugoslavia.
63. Timur S., Gürmen S., **Arslan C.**, Duman İ., “Kurşun Anotların Elektrokimyasal ve Mekanik Özelliklerine Alaşım Elementlerinin Etkisi”, 9. International Metallurgy and Materials Congress, 11-15 June 1997, İstanbul.
64. Çınarlı M., **Arslan C.**, Sesigür H., “Manganez Çözeltilerinden Demirin Uzaklaştırılması ve Proses Değişkenlerinin Etüdü”, 9. International Metallurgy and Materials Congress, 11-15 June 1997, İstanbul.
65. Orhan G., **Arslan C.**, “Alüminotermik Yöntemle Metalik Krom Üretimi”, 9. International Metallurgy and Materials Congress, 11-15 June 1997, İstanbul.

66. Aydın S., **Arslan C.**, Dikeç F., “The Development in the Ferroalloy Production and Consumption of Türkiye”, Proceedings of the 7th International Ferroalloys Congress, INFACON 7, pp.297-306, 11- 14 June 1995, Trondheim, Norway.
67. Orhan G., **Arslan C.**, Açma E., Addemir O., “Alkali Füzyon Yöntemi ile Yerli Kromit Konsantrelerinden Krom(VI) Oksit Üretim Olanaklarının Araştırılması”, 8. International Metallurgy and Materials Congress, 6-9 June 1995, İstanbul.
68. Aydın S., **Arslan C.**, Dikeç F., Duman İ., “Türkiye'deki Demir Dışı Metal Üretim Sektörünün Durumu ve Dünya'daki Yeri”, 8. International Metallurgy and Materials Congress, 6-9 June 1995, İstanbul.
69. Taptık Y., Aydın S., **Arslan C.**, “Metal Recycling and Its Economics in Developing Countries - Case Study: Türkiye”, Proceedings of The Second International Conference on The Recycling of Metals, ASM International, pp.183-190, 19-21 October 1994, Amsterdam, Holland.
70. Vidal R., **Arslan C.**, Duby P., “Laboratory- Scale Investigation of the Electrowinning of Chromium from Chrome- Alum Electrolyte”, Proceedings of the 1994 TMS Annual Meeting, pp.329-346, Feb 27- March 3, 1994, San Francisco, California.
71. Şirin B., Açma E., **Arslan C.**, Addemir O., “Düşük Tenörlü Şelit Konsantresinin Alkali Füzyon ile Değerlendirilmesi ve Kükürdün Tungsten Kazanımına Etkisi”, 7. International Metallurgy and Materials Congress, 4-8 May 1993, Ankara.
72. Açma E., Sesigür H., **Arslan C.**, Addemir O., Tekin A., “Production of Copper, Cobalt and Magnetic Iron Oxide from the Ancient Copper Slags”, Proceedings of The Paul E. Queneau International Symposium on “Extractive Metallurgy of Copper, Nickel, and Cobalt”, 1993 TMS Annual Meeting, Volume 1: Fundamental Aspects, pp. 1181-1193, Eds: R.G. Reddy, R.N. Weizenbach, 21- 25 February 1993, Denver, Colorado.
73. **Arslan C.**, Duby P., “Modeling the Aqueous Chromium Electrowinning Cells”, 1992 TMS Annual Meeting, March 2-5, 1992, San Diego, California.
74. **Arslan C.**, Duby P., “Anodic Oxidation of Cr(III) to Cr(VI) in Chromium Electrowinning”, Extended Abstracts of The 179th Electrochemical Society Meeting, Vol. 91- 1, pp.811-812, May 5- 10, 1991, Washington D.C.
75. Beshers D.N., Duby P., **Arslan C.**, Arslan F., Cukrowski L., Lim B.S., Perpich M.J., Sheikh G., “Effect of Corrosion on Strength of Eutectoid Steel - Metallurgical Investigation of Wires from the Cables of the Williamsburg Bridge in New York”, poster presentation, The 8th International Conference on Strength of Metals and Alloys, August 21-26, 1988, Tampere, Finland.