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### **EĞİTİM BİLGİLERİ:**

**Doçent :** Kimya Mühendisliği, ÜAK, 2021.

**Doktora:** Kimya Mühendisliği, Gazi Üniversitesi, 2016.

**Yüksek Lisans:** Kimya Mühendisliği, Fırat Üniversitesi, 2011.

**Lisans:** Kimya Mühendisliği, Fırat Üniversitesi, 2007.

### **ÜNVAN:**

2021-Halen Doçent Doktor, Bartın Üniversitesi, Metalurji ve Malzeme Mühendisliği Bölümü.

2016-2021 Doktor Öğretim Üyesi, Bartın Üniversitesi, Metalurji ve Malzeme Mühendisliği Bölümü.

2010-2016 Araştırma Görevlisi, Bartın Üniversitesi, Metalurji ve Malzeme Mühendisliği Bölümü.

### **ONUR VE ÖDÜLLER:**

1. Yaras Ali, Alıcılar Ahmet. Alev Geciktirici Reaktif Boyarmadde Sentezi, Karakterizasyonu ve Çadıra Uygulanabilirliği başlıklı proje ile sanayiye uygulanabilir yüksek lisans ve doktora tezleri kategorisinde ikincilik ödülü, UTİB, Bursa, 2012.

### **PATENTLER:**

1. Güneş Işığında Etkilenebilecek Tüm Gıda Maddelerinin Işığa Karşı Korunmasında Hidroksiapatit Katkılı Polietilen Terafitalat İçeren Bir Kompozit Ambalaj Malzemesi, Başvuru Numarası 2020/21086.

### **YAYINLANMIŞ MAKALELER (SCI-SCI Exp.-ESCI indeks):**

1. Arslanoğlu H. Yaras A. "Recovery of molybdenum, cobalt and nickel from spent hydrodesulphurization catalyst through oxidizing roast followed by sodium persulfate leaching." Sustainable Materials and Technologies 28 (2021): e00286, <https://doi.org/10.1016/j.susmat.2021.e00286>

2. Ustaoglu A, Yaras A, Sutcu M, Gencel O. "Investigation of the residential building having novel environment-friendly construction materials with enhanced energy performance in diverse climate regions: Cost-efficient, low-energy and low-carbon

- emission." *Journal of Building Engineering* 43 (2021): 102617, <https://doi.org/10.1016/j.jobe.2021.102617>
3. Erdogmus E, Harja M, Gencel O, Sutcu M, Yaras A. "New construction materials synthesized from water treatment sludge and fired clay brick wastes." *Journal of Building Engineering* 42 (2021): 102471, <https://doi.org/10.1016/j.jobe.2021.102471>
  4. Yaras A, Sutcu M, Erdogmus E, Gencel O. "Recycling and immobilization of zinc extraction residue in clay-based brick manufacturing." *Journal of Building Engineering* 41 (2021): 102421, <https://doi.org/10.1016/j.jobe.2021.102421>
  5. Demirel B, Inaner N.B, Gezer D.U, Daver F, Yaras A, Akkurt F. "Chemical, thermal, and mechanical properties and ultraviolet transmittance of novel nano-hydroxyapatite/polyethylene terephthalate milk bottles." *Polymer Engineering & Science* (2021), <https://doi.org/10.1002/pen.25720>
  6. Demirel B, Saban E, Yaras A, Akkurt F. "Synthesis of Gd<sup>3+</sup> doped hydroxyapatite ceramics: optical, thermal and electrical properties." *Journal of Asian Ceramic Societies* (2021): 1-9, <https://doi.org/10.1080/21870764.2021.1920160>
  7. Yaras A, Demirel B, Akkurt F, Arslanoglu H. "Thermal conversion behavior of paper mill sludge: characterization, kinetic, and thermodynamic analyses." *Biomass Conversion and Biorefinery* (2021): 1-10, <https://doi.org/10.1007/s13399-020-01232-9>
  8. Yaras A. "Combined effects of paper mill sludge and carbonation sludge on characteristics of fired clay bricks." *Construction and Building Materials* 249 (2020): 118722, <https://doi.org/10.1016/j.conbuildmat.2020.118722>
  9. Yaraş A, Arslanoğlu H. "Extraction of selected metals from spent hydrodesulfurization catalyst using alkali leaching agent." *Separation Science and Technology* 55.11 (2020): 2037-2048, <https://doi.org/10.1080/01496395.2019.1673412>
  10. Alpaslan O, Yaras A, Arslanoğlu H. "A Kinetic Model for Chelating Extraction of Metals from Spent Hydrodesulphurization Catalyst by Complexing Agent." *Transactions of the Indian Institute of Metals* 73 (2020): 1925-1937, <https://doi.org/10.1007/s12666-020-02007-6>
  11. Ustaoglu A, Kurtoglu K, Yaras A. "A comparative study of thermal and fuel performance of an energy-efficient building in different climate regions of Turkey." *Sustainable Cities and Society* 59 (2020): 102163, <https://doi.org/10.1016/j.scs.2020.102163>
  12. Arslanoğlu H, Yaraş A. "Chalcopyrite Leaching with Hydrogen Peroxide in Formic Acid Medium." *Transactions of the Indian Institute of Metals* (2020): 1-8, <https://doi.org/10.1007/s12666-020-01896-x>
  13. Yaras A, Sutcu M, Gencel O, Erdogmus E. "Use of carbonation sludge in clay based building materials processing for eco-friendly, lightweight and thermal insulation." *Construction and Building Materials* 224 (2019): 57-65, <https://doi.org/10.1016/j.conbuildmat.2019.07.080>
  14. Yaraş A, Arslanoğlu H. "Utilization of paper mill sludge for removal of cationic textile dyes from aqueous solutions." *Separation Science and Technology* 54.16 (2019): 2555-2566, <https://doi.org/10.1080/01496395.2018.1552295>
  15. Arslanoğlu H, Yaraş A. "Recovery of precious metals from spent Mo–Co–Ni/Al<sub>2</sub>O<sub>3</sub> catalyst in organic acid medium: Process optimization and kinetic studies." *Petroleum Science and Technology*, 37 (19), 2081-2093, (2019), <https://doi.org/10.1080/10916466.2019.1618867>

16. Yaras A, Arslanoglu H. "Leaching behaviour of low-grade copper ore in the presence of organic acid." *Canadian Metallurgical Quarterly* 57.3 (2018): 319-327, <https://doi.org/10.1080/00084433.2018.1473136>
17. Yaras A, Arslanoğlu H. "Valorization of paper mill sludge as adsorbent in adsorption process of copper (II) ion from synthetic solution: kinetic, isotherm and thermodynamic studies." *Arabian Journal for Science and Engineering* 43.5 (2018): 2393-2402, <https://doi.org/10.1007/s13369-017-2817-3>
18. Kursuncu B, Yaras A. "Assessment of the effect of borax and boric acid additives in cutting fluids on milling of AISI O2 using MQL system." *The International Journal of Advanced Manufacturing Technology* 95.5 (2018): 2005-2013, <https://doi.org/10.1007/s00170-017-1301-2>
19. Yaras A, Er E, Celikkan H, Disli A, Alicilar A. "Cellulosic tent fabric coated with boron nitride nanosheets." *Journal of Industrial Textiles* 45.6 (2016): 1689-1700, <https://doi.org/10.1177/1528083715569375>
20. Yaraş A, Arslanoğlu H. "Efficient removal of basic yellow 51 dye via carbonized paper mill sludge using sulfuric acid." *Sigma Journal of Engineering and Natural Sciences*, 36 (3), 803-818 (2018).
21. Kursuncu B, Yaraş A, Arslanoğlu H. "Application of multi criteria decision making methods to leaching process of copper from malachite ore." *Sigma Journal of Engineering and Natural Sciences*, 36 (3), 783-794, (2018).

#### **YAYINLANMIŞ ULUSAL MAKALELER:**

1. Çeliker H.İ, Başbozkurt A.Ç, Yaraş A. "Mechanical and thermal properties of boric acid and paper mill sludge reinforced polyester based composites." *Bor Dergisi* 5.4: 163-169.
2. Yaraş A. "Potasyum Persülfat Varlığında Kullanılmış Hidrodesülfürizasyon Katalizöründen Kobalt ve Nikel Ekstraksiyonu." *Erciyes Üniversitesi Fen Bilimleri Enstitüsü Fen Bilimleri Dergisi* 35.2 (2019): 2-15.
3. Yaraş A, Arslanoğlu H. "Preparation And Characterization Of Novel Iron (III) Hydroxide Paper Mill Sludge Composite Adsorbent For Chromium Removal." *Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi* 23.6 (2019): 1019-1026.
4. Yaraş A, Selen V, Ozer D. "Synergistic effects of agro-industrial wastes on alpha amylase production by *Bacillus amyloliquefaciens* in semi solid substrate fermentation." *Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi* 21.7 (2015): 314-318.
5. Demirel B, Yaraş A, Elçiçek H. "Crystallization behavior of PET materials." *Balıkesir Üniversitesi Fen Bilimleri Enstitü Dergisi*, 13 (1), 26-35, (2011).
6. Alpaslan O, Yaras A, Arslanoglu H. (2019). Kompleksleştirici Kullanılarak Hidrodesülfürizasyon Atık Katalizöründen Mo, Co, Ni Ve Al Metallerinin Seçimli Liçi Kavurma Süresi Ve Sıcaklığının Etkisi. *Bartın Üniversitesi Mühendislik Ve Teknoloji Bilimleri Dergisi*, 7(2), 21-25.
7. Kursuncu B, Yaraş A. "AISI O2 çeliğinin frezelenmesinde minimum miktarda yağlama (MQL) sisteminin kesme performansına etkisi." (2017).
8. Yaras A, Selen V, Özer D. (2014). *Bacillus Amylolyquefaciens* Kullanılarak  $\alpha$ -Amilaz Üretimine Substrat Partikül Boyutunun Etkisi. *Gıda Teknolojileri Elektronik Dergisi*, 9(1), 1-5.

## **YAYINLANMIŞ KONFERANS MAKALELERİ:**

- 1.** Demirel B, Daver F, Yaras A, Kılıç E. (2016). The Effects of Uniform Preform Surface Temperature on the Final Properties of the 1.5 Lt. Carbonated Softdrink PET Bottle. International Conference on Material Science and Technology in Cappadocia, 739-744, (Tam metin bildiri/Sözlü sunum)
- 2.** Yaras A, Arslanoglu H. (2017). A Study on Removal of Chromate from Aqueous Solutions by Paper Mill Sludge. International Advanced Researches and Engineering Congress, 1443-1450, (Tam metin bildiri/Sözlü sunum)
- 3.** Erdogmus E, Yaras A, Koçyigit S, Sütçü M, Gençel O. (2019). Combined Use Of Fly Ash And Marble Powder in Clay Brick Structure. 4th International Engineering and Natural Sciences Conference (IENSC 2019), 979-983, (Tam metin bildiri/Sözlü sunum)
- 4.** Gençel O, Yaras A, Koçyigit S, Sütçü M, Erdogmus E. (2019). Physical And Mechanical Properties Of Clay Based Bricks Containing Water Treatment Sludge. 4th International Engineering and Natural Sciences Conference (IENSC 2019), 992-998, (Tam metin bildiri/Sözlü sunum)
- 5.** Yaras A, Erdogmus E, Koçyigit S, Gençel O, Sütçü M. (2019). Physical Properties Of Clay Based Brick With Paper Mill Sludge And Carbonation Sludge. 4th International Engineering and Natural Sciences Conference (IENSC 2019), 954-958, (Tam metin bildiri/Sözlü sunum)
- 6.** Yaras A, Arslanoglu H, Kursuncu B. (2017). Modelling of Leaching Process of Copper Extraction from Malachite Using Oxalic Acid. International Symposium on Multidisciplinary Studies and Innovative Technologies, 180, (Özet bildiri/Sözlü sunum)
- 7.** Yaras A, Arslanoglu H. (2018). Effect of Roasting Pretreatment on Leaching of Metals. III. International Engineering and Natural Sciences Conference (IENSC 2018), 942-945, (Tam metin bildiri/Sözlü sunum)
- 8.** Kursuncu B, Yaras A. (2015). Applicability of VIKOR Method for Determination of Optimum Experiment Condition for Leaching Process of Copper from Malachite Ore. 3rd International Symposium on Innovative Technologies (ISITES 2015), 2589-2597, (Tam metin bildiri/Sözlü sunum)
- 9.** Yaras A, Arslanoglu H. (2016). Removal of Pb II ion From Aqueous Solution by Adsorption Process onto Paper Mill Sludge Isotherm and Kinetics. International Sustainability Congress 2016, 76-84, (Tam metin bildiri/Sözlü sunum)
- 10.** Kursuncu B, Yaras A. (2017). Utilization of Borax Added Ethylene Glycol Cutting Fluid in Milling with TiAlN Coated Carbide Machine Tool Of AISI O2 by Minimum Quantity Lubrication (MQL). International Advanced Researches and Engineering Congress 2017, 505, (Özet bildiri/Sözlü sunum)
- 11.** Kursuncu B, Yaras A. (2017). Investigation of cutting fluid containing boron compounds in hard milling by MQL technique. 14th International Conference on Flow Dynamics, 160-161, (Tam metin bildiri/Sözlü sunum)
- 12.** Yaras A, Kursuncu B. (2015). Optimization of Leaching Parameters of Copper from Malachite Ore Using Multi Attribute Utility Theory. 3rd International Symposium on Innovative Technologies (ISITES 2015), 2599-2606, (Tam metin bildiri/Sözlü sunum)
- 13.** Yaras A, Arslanoglu H. (2016). Removal of Reactive Black 5 RB5 Dye From Aqueous Solution By Paper Mill Sludge Isotherms and Kinetics. 13th International Conference on Flow Dynamic (ICFD2016), 144-145, (Tam metin bildiri/Sözlü sunum),

14. Yaras A, Er E, Çelikkan H, Disli A, Murathan A.M. (2016). The Role of Boron Compounds in Providing Flame Retardancy to Cellulosic Tent Fabric. 2nd International Conference on Engineering and Natural Sciences (ICENS 2016), 676, (Özet bildiri/Sözlü sunum)
15. Yaras A, Kursuncu B. (2017). Investigation of nano hexagonal boron nitride based cutting fluid in MQL system on hard milling. 14th International Conference on Flow Dynamics, 162-163, (Tam metin bildiri/Sözlü sunum)
16. Yaras A, Arslanoglu H. (2017). Extraction of Copper From Chalcopyrite Concentrated in Presence of Hydrogen Peroxide and Formic Acid. International Advanced Researches and Engineering Congress, 1554, (Özet bildiri/Sözlü sunum)
17. Yaras A, Arslanoglu H, Kursuncu B. (2017). Response Surface Methodology Approach for Optimization of the Copper Leaching from Malachite Using Formic Acid. International Symposium on Multidisciplinary Studies and Innovative Technologies, 181, (Özet bildiri/Sözlü sunum)
18. Arslanoglu H, Yaras A. (2018). Removal of Cr (III) Ions from Aqueous Solution Via Calcium Phosphate. III. International Engineering and Natural Sciences Conference (IENSC 2018), 345-351, (Tam metin bildiri/Sözlü sunum)
19. Yaras A, Selen V, Özer D. (2011). Production of amylase in semi solid substrate fermentation by *Bacillus amyloliquefaciens*. European Biotechnology Congress 2011, 22(1), 87, (Özet bildiri/Poster sunum)
20. Kursuncu B, Yaras A. (2017). Effect of Cutting Fluid Containing Boric acid On Milling with TiAlN coated Carbide Cutting Tool of AISI O2 via Minimum Quantity Lubrication (MQL) method. International Advanced Researchers and Engineering Congress 2017, 504, (Özet bildiri/Sözlü sunum)
21. Demirel B, Daver F, Yaras A. (2011). Simulation of Stress Distribution in the Base of Pet Bottles Under Different Processing Conditions. 6th International Advanced Technologies Symposium (IATS 2011), 1-5, (Tam metin bildiri/Sözlü sunum)
22. Ustaoglu A, Kurtoglu K, Yaras A. (2018). Evaluation of Energy Performance of Pms Added Polyurethane in Building Heat Insulation. 4th International Conference on Natural and Engineering Sciences (ICNES2018), 12(3), 43-45, (Tam metin bildiri/Sözlü sunum)
23. Sütçü M, Yaras A, Gençel O, Erdogmus E. (2019). Yapı Uygulamalarında Yalıtımı Geliştirmek için Kil Tuğlalarda Gözenek Yapıcı Olarak Karbonatlama Çamurunun Kullanımı. The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia/Turkey, 1039-1043, (Tam metin bildiri/Sözlü sunum)

### **ARAŞTIRMA PROJELERİ:**

1. Organik Asit Kullanılarak Oksitli Bakır Cevherinin Çözünme Kinetiğinin İncelenmesi, Bartın Üniversitesi Bilimsel Araştırma Projeleri Birimi, 2017-FEN-B-003, Yürütücü, 2017.
2. Kağıt Fabrikası Atık Çamuru Kullanılarak Poliüretan Esaslı Kompozit Isı Yalıtım Malzeme Üretimi, Bartın Üniversitesi Bilimsel Araştırma Projeleri Birimi, Yürütücü, 2018-FEN-A-020, 2018-2019.
3. Bor Katkılı Karbon Nanodot Sentezi, Karakterizasyonu ve Hücre Uygulamaları, BOREN, Araştırmacı, 2018-D.Ediyor.

4. Kalsiyum Borat'ın ( $\text{CaB}_2\text{O}_4$ ) PET'ten Üretilen Mamul ve Yarı Mamul Malzemelerde Ortaya Çıkan Zararlı Kimyasallar Üzerine İnhibisyon Etkisinin İncelenmesi, BOREN, Araştırmacı, 2020-D.Ediyor.
5. Kağıt Fabrikası Atık Çamurundan Selüloz Esaslı Bor Katkılı Kompozit Isı Yalıtım Malzemesi Üretimi Tübitak 2209/A, Danışman, 2018-2019.
6. Alev Geciktirici Borlu Selülozik Çadır, Tübitak 1003, Bursiyer, 2012-2015.
7. Doğal substratlar ile alfa amilaz üretiminin cevap yüzey yöntemiyle incelenmesi, Fırat Üniversitesi Bilimsel Araştırma Projeleri Birimi 2067, Araştırmacı, 2010-2013.