

# RAŞİT SEZER

## ASST. PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: N-1099-2017

ScopusID: 57200758063

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### Learning Knowledge

Doctorate 2013 - 2018	Istanbul Technical University, Fen Bilimleri, Metalürji Ve Malzeme Mühendisliği , Turkey
Postgraduate 2009 - 2013	Yildiz Technical University, Fen Bilimleri, Metalürji Ve Malzeme Mühendisliği / Üretim, Turkey
Undergraduate 2002 - 2008	Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Metalürji Ve Malzeme Mühendisliği, Turkey

### Dissertations

Doctorate, Production of Al-Sr master alloy from domestic celestite and investigation of its properties, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2018

Postgraduate, Slip Döküm Yönteminin Katı Oksit Yakıt Pillerinde Uygulanması ve Özelliklerinin Araştırılması, Yıldiz Technical University, Fen Bilimleri Enstitüsü, Metalürji Ve Malzeme Mühendisliği / Üretim, 2013

### Academic Titles / Tasks

Assistant Professor 2019 - Continues	Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği
Research Assistant 2012 - 2018	Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği

### Supported Projects

- SEZER R., ÜNDEYİCİ H. B., USTA E., ŞARK B., ATİK N., Project Supported by Higher Education Institutions, Elektromanyetik kalkanlama için farklı özelliklerdeki ferritler ile kompozit boya üretimi, 2023 - Continues
- SEZER R., BOZDEMİR H. N., TAŞYÜREK M., Project Supported by Higher Education Institutions, MAX fazı ve PANI

sentezlenerek iletken özelliğe sahip polimer nanokompozit üretilmesi, 2023 - Continues

3. SARI A., GÜLER O., KOCAMAN M., AKÇAY S. B., ÇAKIR E., ÇANAKÇI A., ALVER Ü., ÇUVALCI H., VAROL T., ASLAN M., et al., Project Supported by Higher Education Institutions, MetalGenleştirilmiş GrafitKarbonize edilmiş Polimer Köpük Kompozit Faz Değiştiren Malzemelerinin Isıl Enerji Depolama Amaçlı Geliştirilmesi, 2022 - Continues
4. Çanakçı A., Çuvalcı H., Varol T., Alver Ü., Erdemir F., Aslan M., Sezer R., Karabacak A. H., Güler O., Yalçın E. D., et al., Project Supported by Higher Education Institutions, AA2024 CuNiCr Takviyeli Metal Matrisli Kompozitlerin Üretimi ve Özelliklerinin İncelenmesi , 2023 - 2025
5. SEZER R., İÇİN K., SÜNBÜL S. E., ÖZTÜRK S., Project Supported by Higher Education Institutions, Ti15Zr Dental İmplantlarda Bor Katkısının Yapısal ve Mekanik Özellikleri Üzerindeki Etkisinin Belirlenmesi, 2020 - 2023
6. Sezer R., TUBITAK Project, PRODUCTION OF AL-SR MASTER ALLOY USED IN FOUNDRIES WITH AN ECONOMIC PROCESS AND LOCAL RESOURCES, 2021 - 2022
7. ÖZTÜRK S., İÇİN K., SÜNBÜL S. E., SEZER R., Project Supported by Higher Education Institutions, Mg(2-x)NiMx (x=at% 0,05, 0,1, 0,2; M=Fe, Ti, Ag) Alaşımlarının Eriyik Savurma Yöntemiyle Üretilmesi ve Elektrokimyasal Hidrojen Depolama Özelliklerinin İncelenmesi, 2019 - 2021
8. ÖZTÜRK B., GEDİKLİ H., SEZER R., İÇİN K., KILIÇARSLAN Y. S., Project Supported by Higher Education Institutions, Mikro Ark Oksidasyon (MAO) Yöntemiyle Alüminyum Esaslı Alaşımların Kaplanması ve Erozyon Aşınma Davranışlarının İncelenmesi, 2018 - 2021
9. ÖZTÜRK S., İÇİN K., SÜNBÜL S. E., SEZER R., Project Supported by Higher Education Institutions, Ferromanyetik Şekil Hafızalı CuAlMn Alaşımlarının Hızlı Katılaştırma Yöntemi ile Üretimi ve Özelliklerinin Geliştirilmesi, 2018 - 2019
10. ÖZTÜRK S., İÇİN K., SEZER R., ÇAKIL D. D., Project Supported by Higher Education Institutions, Yerli Selestit Cevherinden Mekanokimyasal Sentezleme Yöntemi ile SrFeO Esaslı Kalıcı Miknatısların Üretimi, 2018 - 2019
11. Arslan C., Dışpınar D., Ertürk S., Kahruman C., Erzi E., TUBITAK Project, Yerli Selestit Cevherinden Hareketle Alüminyum Döküm Sektörü İçin Modifikatör Üretimi, 2015 - 2017

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

1. **Properties of Al/Y2O3 composites produced by Y2O3-Al2O3 interaction in powder metallurgy route**  
BAYRAK Y., KISASÖZ A., SEZER R.  
Materials Letters, vol.358, 2024 (SCI-Expanded)
2. **Crushing response of triply periodic minimal surface structures fabricated by investment casting and powder bed fusion method**  
Özen İ., Çava K., İpek H., Sezer R., Aslan M.  
MATERIALS TODAY COMMUNICATIONS, vol.38, 2024 (SCI-Expanded)
3. **Production and Characterization of B<sub>4</sub>C Content-Dependent Aluminum Matrix Composites Fabricated via Hot Pressing**  
BAYRAK Y., KISASÖZ A., SEZER R.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 2023 (SCI-Expanded)
4. **Determination of structural, tribological, isothermal oxidation and corrosion properties of Al?Co?Cr?Fe?Ni?Ti?Cu high-entropy alloy**  
SÜNBÜL S. E., İÇİN K., Seren F. Z., ŞAHİN Ö., ÇAKIL D. D., SEZER R., ÖZTÜRK S.  
VACUUM, vol.187, 2021 (SCI-Expanded)
5. **Effects of Furnace Slope and Rotational Speed on the Carbothermic Reduction of Celestite in a Laboratory-Scale Rotary Kiln Furnace**  
Sezer R., Bilen A., Hızlı İ. G., Ertürk S., Arslan C.  
MINING METALLURGY & EXPLORATION, vol.37, no.4, pp.1273-1278, 2020 (SCI-Expanded)
6. **Removal of arsenic from water using copper slag**  
TÜRK T., ALP İ., SEZER R., Arslan C.  
JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.120, no.5, pp.313-318, 2020 (SCI-Expanded)

7. **Mechano-chemical conversion of celestite in highly concentrated sodium carbonate media**  
Sezer R., Arslan C.  
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.55, pp.324-335, 2019 (SCI-Expanded)
8. **Investigation of leaching characteristics of celestite concentrate in acidic media and SrCO<sub>3</sub> production via precipitation**  
Sezer R., Bilen A., Yilmaz E., Ertürk S., Arslan C.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, pp.1410-1416, 2019 (SCI-Expanded)

### Articles Published in Other Journals

1. **Enhancing the Structural and Mechanical Properties of Ti-Zr Alloy through Boron Doping**  
İçin K., Sünbül S. E., Sezer R.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.1, pp.412-421, 2024 (Peer-Reviewed Journal)
2. **Metallothermic Production of Aluminum–Strontium Master Alloy for Modification of Silicon**  
Sezer R., Hızlı G., Bilen A., Ertürk S., Dıspınar D., Arslan C.  
Metallography, Microstructure, and Analysis, vol.9, pp.833-840, 2020 (ESCI)
3. **Floresan Camlarda Kullanılan Fosfor Tozundaki NTE'lerinin Geri Kazanımının Araştırılması**  
Bilen A., Çiftçi H., Sezer R., Birol B., Kavas T.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.19, pp.42-47, 2019 (Peer-Reviewed Journal)
4. **Effect of Mechanical Activation on Roasting of Celestite Ore**  
SEZER R., HIZLI İ. G., BİLEN A., ertürk s., ARSLAN C.  
MT Bilimsel, no.11, pp.53-59, 2017 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

1. **Production of Nano Strontium Hexaferrite by Solution Combustion Synthesis**  
Çalışkan C., Sezer R.  
21 International Metallurgy and Materials Congress, İstanbul, Turkey, 6 - 08 October 2022, pp.636-639
2. **Obtaining Strontium Borate Compounds by Microwave Assisted Solution Combustion Synthesis**  
Üstünel Çavuş A., Sezer R.  
INTERNATIONAL TECHNOLOGY SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 2 - 05 June 2022, pp.30
3. **Microwave Synthesis of Eu:SrAl<sub>2</sub>O<sub>4</sub> Phosphorescent Powders and Doping into 3D Printable Composite Filament**  
Türkmen M., Sabancıoğlu E., Sezer R.  
INTERNATIONAL TECHNOLOGY SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 2 - 05 June 2022, pp.28
4. **Kimyasal Bileşimin SrM Sürekli Miknatısların Manyetik Özellikleri Üzerindeki Etkisi**  
ALPTEKİN F., ÇAKIL D. D., ŞAHİN Ö., SÜN BÜL S. E., İÇİN K., SEZER R.  
The International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC 2019, 18 - 20 October 2019, pp.593-596
5. **RECOVERY OF NICKEL FROM LOW CONCENTRATED SOLUTIONS VIA CHELATING ION EXCHANGE RESIN**  
YILMAZ E., SEZER R., ERTÜRK S., ARSLAN C., ARSLAN F.  
XVIIIITH BALKAN MINERAL PROCESSING CONGRESS (BMPC 2019), Durres, Albania, 23 - 26 May 2019, pp.215-222
6. **Calcination of Strontium Carbonate in Rotary Kiln Furnace**  
SEZER R., YILMAZ E., ERTÜRK S., ARSLAN C.  
10th International Symposium on High-Temperature Metallurgical Processing, San-Antonio, Northern Mariana Islands, 01 January 2019, pp.591-597
7. **An Application Of Slip Casting Method On Solid Oxide Fuel Cells**

SEZER R., ekerim a.

International Conference on Engineering Technologies (ICENTE'18), Konya, Turkey, 26 - 28 October 2018, pp.102

8. **Production Of Strontium Modifier from Different Sources**  
HIZLI İ. G., SEZER R., GÜRSOY Ö., ERTÜRK S., ARSLAN C., DIŞPINAR D.  
19th International Metallurgy and Materials Congress (IMMC2018), İstanbul, Turkey, 25 - 27 October 2018, pp.483
9. **Recycling of Metallic Values from Gold Plated Brass Scrap**  
SEZER R., YILMAZ E., AKÇA S., ERTÜRK S., ARSLAN C.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018, pp.453
10. **Investigation the Reduction Behavior of Manganese Ore Pellets**  
YILMAZ E., SEZER R., ERTÜRK S., ARSLAN C.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018
11. **Thermal Characterization of Manganese Concentrate**  
YILMAZ E., SEZER R., ERTÜRK S., ARSLAN C.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018
12. **Kinetics of Thermal Decomposition of Strontium Carbonate**  
SEZER R., YILMAZ E., ERTÜRK S., ARSLAN C.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, 27 - 29 June 2018, pp.433
13. **The Influence of milling Media on Structural and Magnetic properties of Strontium Hexaferrite Powders**  
ÖZTÜRK S., ÇAKIL D. D., İCİN K., SEZER R., TOPAL U., ÖZTÜRK B.  
6th International Conference on Superconductivity and Magnetism, Antalya, Turkey, 29 April - 04 May 2018, vol.6, no.1, pp.482
14. **Preparation of SrFe<sub>12</sub>O<sub>19</sub> Powders with Mechanochemical synthesis method**  
ÖZTÜRK S., ÇAKIL D. D., İCİN K., SEZER R., TOPAL U., ÖZTÜRK B.  
6th International Conference on Superconductivity and Magnetism, 29 April - 04 May 2018, no.1, pp.422
15. **Production of Modifier for Al-Si Alloys**  
HIZLI İ. G., SEZER R., GÜRSOY Ö., ERTÜRK S., ARSLAN C., DIŞPINAR D.  
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018, pp.78-79
16. **Optimization of Celestite Leaching by Using Response Surface Methodology**  
SEZER R., BİLEN A., ARSLAN C., ERTÜRK S.  
TMS 2018 Annual Meeting Exhibition, Phoenix, United States Of America, 11 - 15 March 2018
17. **Alumino-thermic Reduction of SrO and SrCO<sub>3</sub>**  
ERTÜRK S., SEZER R., ARSLAN C.  
9th International Symposium on High Temperature Metallurgical Processing, Phoenix, United States Of America, 11 - 15 March 2018
18. **Strontium Carbonate Precipitation from Strontium Sulfide Solution**  
BİLEN A., HIZLI İ. G., SEZER R., ERTÜRK S., ARSLAN C.  
XVIIth Balkan Mineral Processing Congress – BMPC 2017, Antalya, Turkey, 1 - 03 November 2017, pp.543-550
19. **Strontium Carbonate Precipitation With Ammonium Carbonate From Strontium Sulphide Solution**  
HIZLI İ. G., BİLEN A., SEZER R., ERTÜRK S., ARSLAN C.  
XVIIth Balkan Mineral Processing Congress – BMPC 2017, Antalya, Turkey, 1 - 03 November 2017, pp.551-555
20. **Roasting of Celestite in Laboratory Scale Rotary Furnace**  
ERTÜRK S., SEZER R., HIZLI İ. G., BİLEN A., ARSLAN C.  
8th International Symposium on High-Temperature Metallurgical Processing, California, United States Of America, 26 February - 02 March 2017, pp.469-476
21. **Investigating the Dissolution Characteristics of Strontium Sulfide**  
HIZLI İ. G., BİLEN A., SEZER R., YILMAZ E., ERTÜRK S., ARSLAN C.  
3rd Pan American Materials Congress (PAMC), California, United States Of America, 26 February - 02 March 2017, pp.539-545

22. **Production of Strontianite from Celestite Ore in Carbonate Media**  
Hızlı İ. G., Bilen A., Sezer R., Ertürk S., Arslan C.  
3rd Pan American Materials Congress (PAMC), California, United States Of America, 26 February - 02 March 2017, pp.607-613
23. **Direct Conversion of Celestite to SrCO<sub>3</sub> by Wet Milling**  
SEZER R., Bilen A., Hızlı İ. G., Ertürk S., Arslan C.  
146th TMS Annual Meeting and Exhibition, California, United States Of America, 26 February - 02 March 2017, pp.608-613
24. **EFFECT OF MECHANICAL ACTIVATION ON ROASTING OF CELESTITE ORE**  
SEZER R., HIZLI İ. G., BİLEN A., ertürk s., ARSLAN C.  
International Black Sea Mining Tunnelling Symposium, Trabzon, Turkey, 2 - 04 November 2016
25. **Investigating the Dissolution of Celestite in BaCl<sub>2</sub> and MgCl<sub>2</sub> Medium**  
BİLEN A., HIZLI İ. G., SEZER R., ERTÜRK S., ARSLAN C.  
International Black Sea Mining & Tunnelling Symposium, Trabzon, Turkey, 2 - 04 November 2016, pp.479-484
26. **SÜPER PLASTİK ŞEKİL DEĞİŞTİRMENİN ALÜMİNYUM MALZEME ÖZELLİKLERİNE ETKİSİ**  
BAYRAK Y., SEZER R., EKERİM A.  
5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009, pp.727-732

## Academic and Administrative Experience

2022 - Continues	<b>Faculty Management Board Member</b>	Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği
2021 - 2023	<b>Deputy Head of Department</b>	Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği
2019 - 2021	<b>Deputy Head of Department</b>	Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği

## Patent

Ipek H., Aslan M., Çuvalcı H., Sezer R., Alver Ü., Çava K., ÜÇ YÖNLÜ PERİYODİK MİNİMAL YÜZEY (ÜPMY) DESENLİ ÇEKİRDEK YAPIYA SAHİP HİBRİT SANDVIÇ KOMPOZİT PANEL, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2021 014024 , Standard Registration, 2023

## Student Project

R & D Project, Aviyonik Sistemlerde Uygulanılması İçin Mn+1AX<sub>n</sub> MAX Fazlarının Sentezlenerek PANI Polimer Nanokompozitine Isıl ve Elektriksel İletkenlik Özelliklerinin Kazandırılması, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2023 - Continues

R & D Project, Ferritlerin farklı tane boyutu ve oranlarda reçine içerisinde dağıtılarak alüminyum üzerine kaplaması ve elektromanyetik özelliklerin incelenmesi, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2023 - Continues

R & D Project, Yerli Piezo Malzeme Üretimi ve Zemin Kaplamalarında Kullanılabilirliğinin İncelenmesi., Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2023 - Continues

R & D Project, KESİCİ TAKIM MALZEMELERİNDE KULLANILMAK ÜZERE KENDİLİĞİNDEN İLERLEYEN YÜKSEK SICAKLIK SENTEZİ YÖNTEMİYLE ZrB<sub>2</sub> NANOTOZU ve ZrB<sub>2</sub> PLAKASI ÜRETİLMES, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2022 - Continues

R & D Project, KENDİLİĞİNDEN İLERLEYEN YÜKSEK SICAKLIK SENTEZİ İLE YÜKSEK ENTROPİLİ ALAŞIMIN ÜRETİMİ VE PVD YÖNTEMİ İLE KAPLANABİLİRLİĞİNİN İNCELENMESİ, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2022 - Continues

R & D Project, Drone Kanadı Tasarımı İçin Fosforesans Katkılı Kompozit Filamentlerin Geri Dönüştürülmüş Polimer İle Üretimi, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey, 2022 - 2023

## Scientific Refereeing

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2023

Journal of the Turkish Chemical Society Section B: Chemical Engineering, National Scientific Refreed Journal, May 2023

JOM, SCI Journal, September 2022

JOURNAL OF MINING AND METALLURGY, SECTION B: METALLURGY, Journal Indexed in SCI-E, September 2022

Journal of Sustainable Metallurgy, Journal Indexed in SCI-E, July 2022

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART L: JOURNAL OF MATERIALS: DESIGN AND APPLICATIONS, Journal Indexed in SCI-E, April 2022

IEEE LATIN AMERICA TRANSACTIONS, Journal Indexed in SCI-E, November 2021

Transactions Of Nonferrous Metals Society Of China, Journal Indexed in SCI-E, July 2021

ARCHIVES OF METALLURGY AND MATERIALS, Journal Indexed in SCI-E, March 2021

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, January 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, Journal Indexed in SCI-E, September 2020

INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, Journal Indexed in SCI-E, August 2020

JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, National Scientific Refreed Journal, June 2020

Journal of Mining and Metallurgy, Section A: Mining, Other Indexed Journal, February 2020

JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, October 2019

Sakarya University Journal of Science (SAUJS), National Scientific Refreed Journal, March 2019

## Metrics

Publication: 38

Citation (WoS): 50

Citation (Scopus): 48

H-Index (WoS): 3

H-Index (Scopus): 3

## Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Production Metallurgy, Engineering and Technology

## Entrepreneurship Activities

Limited, Strolabs R&D and Engineering Services Trd LLC, 04 November 2021, Founder Owner

## Non Academic Experience

Company, Strolabs R&D and Engineering Services Trade LLC, Executive

Strolabs Arge ve Mühendislik Hiz Tic Ltd Şti  
Other Public Institution, Istanbul Technical University  
Business Establishment Private, AKARE Mühendislik  
Business Establishment Private, İznik Çini ve Seramikleri  
Business Establishment Private, Sefer Döküm  
Tepsi Döküm ve Makina  
Business Establishment Private, Tepsi Döküm ve Makina  
Business Establishment Private, Burak Alüminyum