

## Dr. Öğr. Üyesi EDA AYDOĞAN GÜNGÖR

### Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAZ-9143-2020

ScopusID: 55821920300

Yoksis Araştırmacı ID: 203903

### Eğitim Bilgileri

Doktora, 2012 - 2016

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Türkiye 2010 - 2012

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, Türkiye 2005 - 2010

### Araştırma Alanları

Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2020 - Devam Ediyor

Dr. Öğr. Üyesi, Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Malzeme Bilimi Ve Nano Mühendislik Bölümü, 2018 - 2020

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2010 - 2012

### Verdiği Dersler

fundamentals of materials science and engineering, Lisans, 2021 - 2022

High Strength Alloys, Yüksek Lisans, 2021 - 2022

MATERIALS PROCESSING LABORATORY, Lisans, 2021 - 2022

### Yönetilen Tezler

Aydoğan Güngör E., Development and production of ductile tizrbnhfta refractory high entropy alloy system for extreme environments, Yüksek Lisans, L.KORAY(Öğrenci), 2022

Dericiođlu A. F., Aydođan GÜNGÖR E., High temperature mechanical properties of ceramic dispersoid reinforced 17-4 PH stainless steel produced by selective laser melting, Yüksek Lisans, A.ÖZSOY(Öđrenci), 2021

## Jüri Üyelikleri

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Orta Dođu Teknik Üniversitesi, Eylül, 2021  
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Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Orta Dođu Teknik Üniversitesi, Ağustos, 2021  
Doktora Tez İzleme Komitesi (TİK) Üyeliđi, Doktora Tez İzleme Komitesi (TİK) Üyeliđi, Orta Dođu Teknik Üniversitesi, Haziran, 2021  
Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Orta Dođu Teknik Üniversitesi, Haziran, 2021  
Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Orta Dođu Teknik Üniversitesi, Haziran, 2021  
Doktora Tez İzleme Komitesi (TİK) Üyeliđi, Doktora Tez İzleme Komitesi (TİK) Üyeliđi, Orta Dođu Teknik Üniversitesi, Ocak, 2021  
Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Orta Dođu Teknik Üniversitesi, Eylül, 2020  
Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Orta Dođu Teknik Üniversitesi, Temmuz, 2020  
Tez Savunma (Doktora), Tez Savunma (Doktora), Orta Dođu Teknik Üniversitesi, Temmuz, 2020

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Laser powder bed fusion of oxide dispersion-strengthened IN718 alloys: A complementary study on microstructure and mechanical properties**  
YALÇIN M., Gokbayrak A., Duygulu O., Derin C. B., Poplawsky J., El-Atwani O., AYDOĐAN GÜNGÖR E.  
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- II. **Development and directed energy deposition of high strength Hf5Mo15Nb35Ta25Ti20 refractory high entropy alloys**  
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- III. **The effect of additively and subtractively created center internal features on microstructure and mechanical performance of inconel-718 parts**  
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Rapid Prototyping Journal, cilt.30, sa.2, ss.287-304, 2024 (SCI-Expanded)
- IV. **Tailoring the microstructure and mechanical properties of IN718 alloy via a novel scanning strategy implemented in laser powder bed fusion**  
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- V. **Development and thermal stability of Cr10Mo25Ta25Ti15V25 refractory high entropy alloys**  
Tukac O. U., ÖZALP A., AYDOĐAN GÜNGÖR E.  
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- VI. **Design of oxygen-doped TiZrHfNbTa refractory high entropy alloys with enhanced strength and ductility**  
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- VII. **Development and additive manufacturing of oxide dispersion strengthened inconel 718: Thermochemical and experimental studies**  
Yesim Yalcin M., Bora Derin D., AYDOĐAN GÜNGÖR E.  
Journal of Alloys and Compounds, cilt.914, 2022 (SCI-Expanded)
- VIII. **Selective laser melting of Nano-TiN reinforced 17-4 PH stainless steel: Densification, microstructure and mechanical properties**

Ozsoy A., AYDOĞAN GÜNGÖR E., DERİCİOĞLU A. F.

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- IX. **In-situ radiation response of additively manufactured modified Inconel 718 alloys**  
AYDOĞAN GÜNGÖR E., El-Atwani O., Erdem B., Li M., Devaraj A., Koc B., Chen W. -, Maloy A.  
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- X. **Enhancement of Nanostructured Ferritic Alloy 14YWT Properties via Heat Treatment for Post-Consolidation Processing**  
Rietema C. J., Saleh T. A., Hoelzer D. T., Eftink B. P., Aydogan E., Clarke K. D., Clarke A. J., Maloy S. A.  
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- XI. **Tensile properties and microstructure of additively manufactured Grade 91 steel for nuclear applications**  
Eftink B. P., Vega D. A., El Atwani O., Sprouster D. J., Yoo Y. S. J., Steckley T. E., Aydogan E., Cady C. M., Al-Sheikhly M., Lienert T. J., et al.  
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- XII. **In Situ Micro-Pillar Compression to Examine Radiation-Induced Hardening Mechanisms of FeCrAl Alloys**  
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- XIII. **In-situ observation of nano-oxide and defect evolution in 14YWT alloys**  
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- XIV. **Nitrogen effects on radiation response in 12Cr ferritic/martensitic alloys**  
Aydogan E., Gigax J. G., Parker S. S., Eftink B. P., Chancey M., Poplawsky J., Maloy S. A.  
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- XV. **Damage relief of ion-irradiated Inconel alloy 718 via annealing**  
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- XVI. **alpha ' formation kinetics and radiation induced segregation in neutron irradiated 14YWT nanostructured ferritic alloys**  
Aydogan E., Martinez E., March K., El-Atwani O., Krumwiede D. L., Hosemann P., Saleh T., Maloy S. A.  
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- XVII. **Impact of composition modification induced by ion beam Coulomb-drag effects on the nanoindentation hardness of HT9**  
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- XVIII. **Response of 14YWT alloys under neutron irradiation: A complementary study on microstructure and mechanical properties**  
Aydogan E., Weaver J. S., Carvajal-Nunez U., Schneider M. M., Gigax J. G., Krumwiede D. L., Hosemann P., Saleh T. A., Mara N. A., Hoelzer D. T., et al.  
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- XIX. **Effect of High-Density Nanoparticles on Recrystallization and Texture Evolution in Ferritic Alloys**  
Aydogan E., Rietema C. J., Carvajal-Nunez U., Vogel S. C., Li M., Maloy S. A.  
CRYSTALS, cilt.9, sa.3, 2019 (SCI-Expanded)
- XX. **Unprecedented irradiation resistance of nanocrystalline tungsten with equiaxed nanocrystalline grains to dislocation loop accumulation**  
El-Atwani O., Esquivel E., Aydogan E., Martinez E., Baldwin J. K., Li M., Uberuaga B. P., Maloy S. A.  
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- XXI. **Microstructure and mechanical properties of FeCrAl alloys under heavy ion irradiations**  
Aydogan E., Weaver J. S., Maloy S. A., El-Atwani O., Wang Y. Q., Mara N. A.  
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- XXII. **Loop and void damage during heavy ion irradiation on nanocrystalline and coarse grained tungsten: Microstructure, effect of dpa rate, temperature, and grain size**  
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- XXIII. **Detailed transmission electron microscopy study on the mechanism of dislocation loop rafting in tungsten**  
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- XXIV. **High temperature microstructural stability and recrystallization mechanisms in 14YWT alloys**  
Aydogan E., El-Atwani O., Takajo S., Vogel S. C., Maloy S. A.  
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- XXV. **Effect of tube processing methods on microstructure, mechanical properties and irradiation response of 14YWT nanostructured ferritic alloys**  
Aydogan E., Maloy S. A., Anderoglu O., Sun C., Gigax J. G., Shao L., Garner F. A., Anderson I. E., Lewandowski J. J.  
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- XXVI. **Stability of nanosized oxides in ferrite under extremely high dose self ion irradiations**  
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- XXVII. **Effect of self-ion irradiation on the microstructural changes of alloy EK-181 in annealed and severely deformed conditions**  
Aydogan E., Chen T., Gigax J. G., Chen D., Wang X., Dzhumaev P. S., Emelyanova O. V., Ganchenkova M. G., Kalin B. A., Leontiva-Smirnova M., et al.  
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- XXVIII. **Characterization of phase properties and deformation in ferritic-austenitic duplex stainless steels by nanoindentation and finite element method**  
Schwarm S. C., Kolli R. P., Aydogan E., Mburu S., Ankem S.  
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- XXIX. **Beam-contamination-induced compositional alteration and its neutron-atypical consequences in ion simulation of neutron-induced void swelling**  
Gigax J. G., Kim H., Aydogan E., Garner F. A., Maloy S., Shao L.  
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- XXX. **Radiation response of alloy T91 at damage levels up to 1000 peak dpa**  
Gigax J. G., Chen T., Kim H., Wang J., Price L. M., Aydogan E., Maloy S. A., Schreiber D. K., Toloczko M. B., Garner F. A., et al.  
JOURNAL OF NUCLEAR MATERIALS, cilt.482, ss.257-265, 2016 (SCI-Expanded)
- XXXI. **Temperature dependent dispersoid stability in ion-irradiated ferritic-martensitic dual-phase oxide-dispersion-strengthened alloy: Coherent interfaces vs. incoherent interfaces**  
Chen T., Gigax J. G., Price L., Chen D., Ukai S., Aydogan E., Maloy S. A., Garner F. A., Shao L.  
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- XXXII. **Effect of tube processing methods on the texture and grain boundary characteristics of 14YWT nanostructured ferritic alloys**  
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- XXXIII. **Effect of shock loading on the microstructure, mechanical properties and grain boundary characteristics of HT-9 ferritic/martensitic steels**

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- XXXIV. **Surface modification of low activation ferritic-martensitic steel EK-181 (Rusfer) by high temperature pulsed plasma flows**  
Emelyanova O. V., Dzhumaev P. S., Yakushin V. L., Kalin B. A., Ganchenkova M. G., Khein A. T., Leontyeva-Smirnova M. V., Valiev R. Z., Enikeev N. A., Shao L., et al.  
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- XXXV. **Microstructural changes and void swelling of a 12Cr ODS ferritic-martensitic alloy after high-dpa self-ion irradiation**  
Chen T., Aydogan E., Gigax J. G., Chen D., Wang J., Wang X., Ukai S., Garner F. A., Shao L.  
JOURNAL OF NUCLEAR MATERIALS, cilt.467, ss.42-49, 2015 (SCI-Expanded)
- XXXVI. **The influence of ion beam rastering on the swelling of self-ion irradiated pure iron at 450 degrees C**  
Gigax J. G., Aydogan E., Chen T., Chen D., Shao L., Wu Y., Lo W. Y., Yang Y., Garner F. A.  
JOURNAL OF NUCLEAR MATERIALS, cilt.465, ss.343-348, 2015 (SCI-Expanded)
- XXXVII. **Morphology and magnetic properties of barium hexaferrite ceramics synthesized in x wt% NaCl-(100-x) wt% KCl molten salts**  
Aydogan E., Kaya S., DERİCİOĞLU A. F.  
Ceramics International, cilt.40, ss.2331-2336, 2014 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **PRODUCTION OF OXIDE DISPERSION STRENGTHENED INCONEL 718 ALLOYS USING CONVENTIONAL POWDER METALLURGY AND ADDITIVE MANUFACTURING METHODS**  
Aydogan E.  
Konya mühendislik bilimleri dergisi (Online), cilt.11, sa.3, ss.678-692, 2023 (Hakemli Dergi)
- II. **Development of advanced low N ferritic/martensitic steel for reactor applications**  
Rietema C., Clarke A., Saleh T., AYDOĞAN GÜNGÖR E., Anderoglu O., Clarke K.  
Transactions of American Nuclear Society, 2018 (Hakemli Dergi)
- III. **Post irradiation examination of fast neutron irradiated 14YWT tubes at nuclear science user facilities**  
Saleh T., Krumwiede D., AYDOĞAN GÜNGÖR E., Quintana M., Romero T., Hosemann P., Maloy S.  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Radiation effects on HT9 tempered martensitic steels as a function of nitrogen content and deformation**  
AYDOĞAN GÜNGÖR E., gigax j., Parker S., Clausen B., Brown D., Wang Y., Chancey M., Eftink B., Maloy S.  
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- II. **Additively manufactured grade 91 steel for reactor applications**  
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- III. **Neutron irradiation studies on 14YWT nanostructured ferritic alloys**  
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- IV. **Microstructure and mechanical properties of high dose self-ion irradiated nanostructured ferritic alloys produced by various processing methods**

AYDOĞAN GÜNGÖR E., Anderoglu O., Maloy S., Shao L., gigax j., Price L., Chen D., Odette R., Hoelzer D., Lewandowski J., et al.

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- V. **Radiation Effects on HT9 Tempered Martensitic Steels as a Function of Initial Dislocation Density**  
AYDOĞAN GÜNGÖR E., Clausen B., Brown D., Wang Y., Eftink B., Chen D., Maloy S.  
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- VI. **Progress in Developing High Dose Radiation Tolerant Ferritic Steels for Nuclear Applications**  
Maloy S., AYDOĞAN GÜNGÖR E., Eftink B., Saleh T., Toloczko M., Byun T. S., Lavender C., Odette R., Alam M., Pal S., et al.  
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- VII. **Development of advanced low N ferritic/martensitic steel for reactor applications**  
Rietema C., Clarke A., Saleh T., Aydogan E., Anderoglu O., Clarke K.  
2018 Transactions of the American Nuclear Society, ANS 2018, Florida, Amerika Birleşik Devletleri, 11 - 15 Kasım 2018, cilt.119, ss.512-514
- VIII. **Effect of processing methods on texture evolution and recrystallization studies on 14YWT nanostructured ferritic alloys**  
AYDOĞAN GÜNGÖR E., Vogel S., Takajo S., Maloy S., Yablinski C.  
ICOTOM 18, 5 - 10 Kasım 2017
- IX. **Ion Irradiations and Microstructural Characterization of Optimized FeCrAl Cladding Tubes**  
AYDOĞAN GÜNGÖR E., Weaver J., Maloy S., Wang Y., Mara N., ElAtwani O.  
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- X. **Stability of 14YWT nanostructured ferritic alloys under irradiation and thermal aging**  
AYDOĞAN GÜNGÖR E., Maloy S., Vogel S., Yablinski C., Anderoglu O., Almirall N., Odette R., Shao L., Garner F.  
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- XI. **Post irradiation examination of fast neutron irradiated 14YWT tubes at nuclear science user facilities**  
Saleh T., Krumwiede D., Aydogan E., Quintana M., Romero T., Hosemann P., Maloy S.  
2017 Transactions of the American Nuclear Society, ANS 2017, California, Amerika Birleşik Devletleri, 11 - 15 Haziran 2017, cilt.116, ss.394-395
- XII. **High dose self-ion irradiation studies on 14YWT nanostructured ferritic alloys**  
AYDOĞAN GÜNGÖR E., Maloy S., Anderoglu O., Almirall N., Odette R., Shao L., Garner F.  
CAARI 2016, 30 Ekim - 04 Kasım 2016
- XIII. **Microstructure and Mechanical Properties of High Dose Self-ion Irradiated Nanostructured Ferritic Alloys**  
AYDOĞAN GÜNGÖR E., Anderoglu O., Maloy S., gigax j., Price L., Chen D., chen t., Wang X., Garner F., Shao L.  
TMS 2016, 14 - 18 Şubat 2016
- XIV. **Effect of Tube Processing Methods on Microstructure and Mechanical Properties of Nanostructured Ferritic Alloys**  
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- XV. **Microstructure and Mechanical Property Evolution during Tube Processing of Oxide Dispersion Strengthened (ODS) Ferritic Steels**  
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- XVI. **Swelling Resistance of Several Variants of Ferritic Alloy EK-181 at High Doses During Self Ion Irradiation**  
AYDOĞAN GÜNGÖR E., chen t., Chen D., gigax j., Wang X., Wei C., Shao L., Dzhumaev P., Emelyanova O., Ganchenkova M., et al.  
TMS 2015, 15 - 19 Mart 2015
- XVII. **Role of Shock Loading and Annealing on the Microstructural and Mechanical Properties of F/M HT-9**

## **Steels**

AYDOĞAN GÜNGÖR E., Anderoglu O., Maloy S., Coughlin D.

MRS Fall 2014, 30 Kasım - 05 Aralık 2014

## **XVIII. Formation Kinetics, Morphology and Magnetic Properties of BaHF Ceramics Synthesized in x wtNaCl-(100-x) wt KCl Molten Salts**

Kaya S., AYDOĞAN GÜNGÖR E., DERİCİOĞLU A. F.

Advanced Materials World Congress (AMWC), 16 Eylül - 19 Haziran 2013

## **XIX. Processing Characterization of Textured Barium Ferrite Ceramics**

Kaya S., AYDOĞAN GÜNGÖR E., DERİCİOĞLU A. F.

IMMC 2012, 13 - 15 Eylül 2012

## **XX. Developing Pathways for Bioinspired Bulk Nano-Laminar Composites**

AYDOĞAN GÜNGÖR E., DERİCİOĞLU A. F.

Junior Euromat 2010, 26 - 30 Temmuz 2010

## **Bilimsel Hakemlikler**

JOURNAL OF NUCLEAR MATERIALS, SCI Kapsamındaki Dergi, Ekim 2020

JOURNAL OF NUCLEAR MATERIALS, SCI Kapsamındaki Dergi, Eylül 2020

## **Metrikler**

Yayın: 60

Atıf (WoS): 708

Atıf (Scopus): 788

H-İndeks (WoS): 16

H-İndeks (Scopus): 17

## **Burslar**

Uluslararası Lider Araştırmacılar Ödülü, TÜBİTAK, 2020 - Devam Ediyor

## **Ödüller**

Aydoğan Güngör E., For Women in Science, Loreal-Unesco, Ekim 2021

## **Akademi Dışı Deneyim**

Los Alamos Ulusal Laboratuvarı