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Jüri Üyelikleri

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

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Development and additive manufacturing of oxide dispersion strengthened inconel 718: Thermochemical and experimental studies**
Yesim Yalcin M., Bora Derin D., AYDOĞAN GÜNGÖR E.
Journal of Alloys and Compounds, cilt.914, 2022 (SCI Expanded İndekslerine Giren Dergi)
- II. **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.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.836, 2022 (SCI İndekslerine Giren Dergi)
- III. **In-situ radiation response of additively manufactured modified Inconel 718 alloys**
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ADDITIVE MANUFACTURING, cilt.51, 2022 (SCI İndekslerine Giren Dergi)
- IV. **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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- V. **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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- VI. **In Situ Micro-Pillar Compression to Examine Radiation-Induced Hardening Mechanisms of FeCrAl Alloys**
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- VII. **In-situ observation of nano-oxide and defect evolution in 14YWT alloys**
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Materials Characterization, cilt.170, 2020 (SCI İndekslerine Giren Dergi)
- VIII. **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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- IX. **Damage relief of ion-irradiated Inconel alloy 718 via annealing**
Fincher C. D. , Turman H., French A., Chancey M., Gigax J., Aydogan E., Zhao D., Yadav D., Xie K., Wang Y., et al.
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- X. **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.
SCIENTIFIC REPORTS, cilt.9, 2019 (SCI İndekslerine Giren Dergi)
- XI. **Impact of composition modification induced by ion beam Coulomb-drag effects on the nanoindentation hardness of HT9**
Gigax J. G. , Kim H., Aydogan E., Price L. M. , Wang X., Maloy S. A. , Garner F. A. , Shao L.
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- XII. **Response of 14YWT alloys under neutron irradiation: A complementary study on microstructure and mechanical properties**
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- XIII. **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.
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- XIV. **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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- XV. **Microstructure and mechanical properties of FeCrAl alloys under heavy ion irradiations**
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- XVI. **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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- XVII. **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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- XVIII. **Detailed transmission electron microscopy study on the mechanism of dislocation loop rafting in tungsten**
El-Atwani O., Aydogan E., Esquivel E., EFE M., Wang Y. Q. , Maloy S. A.
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- XIX. **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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- XX. **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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- XXI. **Stability of nanosized oxides in ferrite under extremely high dose self ion irradiations**
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- XXII. **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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- XXIII. **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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- XXIV. **Radiation response of alloy T91 at damage levels up to 1000 peak dpa**
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- XXV. **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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- XXVI. **Effect of tube processing methods on the texture and grain boundary characteristics of 14YWT nanostructured ferritic alloys**
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- XXVII. **Effect of shock loading on the microstructure, mechanical properties and grain boundary characteristics of HT-9 ferritic/martensitic steels**
Aydogan E., Anderoglu O., Maloy S. A., Livescu V., Gray G. T., Perez-Bergquist S., Williams D. J.
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- XXVIII. **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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- XXIX. **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.
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- XXX. **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.
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- XXXI. **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 İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **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 (Diğer Kurumların Hakemli Dergileri)
- II. **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**
AYDOĞAN GÜNGÖR E., Martinez Saez E., Weaver J., gigax j., Shao L., Garner F., Maloy S.
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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**
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- VI. **Progress in Developing High Dose Radiation Tolerant Ferritic Steels for Nuclear Applications**
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- VII. **Development of advanced low N ferritic/martensitic steel for reactor applications**
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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**
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- 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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- XIII. **Microstructure and Mechanical Properties of High Dose Self-ion Irradiated 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**
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- 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.
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- 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.
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- XIX. **Processing Characterization of Textured Barium Ferrite Ceramics**
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- XX. **Developing Pathways for Bioinspired Bulk Nano-Laminar Composites**
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Bilimsel Hakemlikler

JOURNAL OF NUCLEAR MATERIALS, SCI Kapsamındaki Dergi, Ekim 2020

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Burslar

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