

# 1. 2021-2022 Yılı Bilimsel Faliyetler

## 1.1. Yayınlar

### 1.1.1. Makaleler

#### 1.1.1.1. SCI/SCIE indeksinde taranan dergilerde

- Yelda Ozdil Kacan & Faruk Elaldi, A numerical model for analysis of layer thicknesses on ballistic resistance of a multilayer armor, *Journal of Reinforced Plastics and Composites*, Vol 0.0, No 0.0, Pages: 1-10, 2022 DOI: 10.1177/07316844221104144
- Erol, Ö., “Analysis of the Performance of a Solar Air Heater with Different Configurations: Effect of Fins and Turbulators”, *Heat Transfer Research*, 53, 6, pp. 45-59, 2022.
- N. Akcay, V. Gremenok, V. A. Ivanov, E. Zaretskaya and S. Ozcelik, “Characterization of Cu<sub>2</sub>ZnSnS<sub>4</sub> thin films prepared with and without thin Al<sub>2</sub>O<sub>3</sub> barrier layer”, *Solar Energy*, (234), pp. 137-152, 2022.
- N. Akcay, U. C. Baskose, S. Ozcelik, V. Gremenok and E. P. Zaretskaya, “Na Incorporation into Cu<sub>2</sub>ZnSnS<sub>4</sub> Thin Film Absorbers from RF-sputtered NaF Precursors”, *Solar Energy*, (217), 280-291, 2021.
- N. Akcay, S. Ozcelik and M. Tivanov, “MoS<sub>2</sub> thin films grown by sulfurization of DC sputtered Mo thin films on Si/SiO<sub>2</sub> and c-plane sapphire substrates”, *Journal of Electronic Materials*, 50(3), 1452-1466, 2021.

#### 1.1.1.2. Diğer indekslerde taranan dergilerde

- Ic YT, Saraloğlu Güler E, Sezer B, Taş BS, Şahin HS. Multi-objective Optimization of Turning Parameters for SiC- or Al<sub>2</sub>O<sub>3</sub>-Reinforced Aluminum Matrix Composites. *Process Integration and Optimization for Sustainability*, 2021; 5:609-623.
- Tüzüner S., Metin A.B., Saraloğlu Güler E., Optimization of Processing Parameters for Minimum Residual Stress and Maximum Wear Resistance During Gas Nitration of 4140 Steel, *Journal of Polytechnic*, 2022.

### 1.1.2. Kitaplar

- Saraloğlu Güler E. Corrosion Protection Using Organic and Natural Polymeric Inhibitors. In: Hatem M.A. Amin, Ahmed Galal editors. *Corrosion Protection of Metals*. : CRC Press; 2021. p.64-78.

### 1.1.3. Konferans Kitabında Yayımlanmış Bildiriler

#### 1.1.3.1. Uluslararası

- Cenk BALÇIK, Tuğberk ŞAKAR “Zırh Çeliği Plakalarının Köşe Birleşim Bölgelerinde Yapılan Güçlendirmenin Balistik Değerlendirilmesi” 3.ULUSLARARASI MÜHENDİSLİK VE MİMARLIK KONGRESİ, 28-29 Mayıs 2022, Diyarbakır
- Ahmet Kazım ÇELİK, Cenk BALÇIK “Çerçeve Destekli Kompozit Malzemeler İçin Düşük Hızlı Darbe Dayanımlarının İncelenmesi Ve Etkilerinin Belirlenmesi” 7. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, 16-17 Nisan 2022, İstanbul.
- Bertuğ GÜVEN, Cenk BALÇIK “Farklı Kaynak Ağızı Açısı ve Geometrisine Sahip AW5083-H111 ve AW6061-T6 Alüminyum Alaşımlarının Çekme Dayanımlarının İncelenmesi” 8. Uluslararası Akademik Araştırmalar Kongresi, 22-23-24 HAZİRAN 2022.
- Faruk Elaldi & Pelin Alabay, “Low Velocity Impact Behaviour of Composite Laminates Containing TiC and ZrC Nano-Particles in Resin System”, Int. 7th Nanotech & Nanoscience Conference & Exhibition (Nanotech France 2022), Paris, France, 2022
- B. Güntürk, B. Cengiz, A Characterization of the Self-Module Homomorphisms of a  $\sigma$ -finite Boolean Ring  $\mathcal{R}$ , 9th International Congress on Fundamental and Applied Sciences (ICFAS2022), 28-30 June 2022, İstanbul/Turkey
- B. Güntürk, On the vector duals of  $L^1(\mu, X)$   $\sigma$ -finite Boolean Ring  $\mathcal{R}$ , 6th International Conference of Mathematical Sciences (ICMS2022), 20-24 July 2022, İstanbul/Turkey
- Ç.Pamuk, A.T. Şamiloğlu, “Investigation of Effects of Direct Drive Friction Welding Parameters and Tip Geometries to the Tensile Strength of Welded Joints Between Dissimilar Materials”, International Modern Scientific Research Congress, Dec. 23-25, 2021 İstanbul, Turkey.
- Semerci D. S. ,Yavuz T., “A New Vertx Preventing Element Design for Francis Turbines and Comparison of Different geometric Shapes”, 5 th International Anatolian Symposium , 24-26 March 2021, Trabzon/Turkey.
- Gültekin Y, Koç E, Yavuz T., “Design of the Deformable Wind Turbine Blade to Keep Efficiency High.”, 5 th International Anatolian Symposium , 24-26 March 2021, Trabzon/Turkey.
- Yavuz T, Şaşmaz T, “Absorbsiyonlu soğutma sistemlerinde lityum bromür-su ve amonyak-su çalışma çiftlerinin termodinamik ve ekserji analizleri ile karşılaştırılması”, IV. International Ankara Conference on Scientific Research , April 10 -11, 2021 Ankara/Turkey.
- Başak Dere, Levent Çolak, “Numerical and Experimental Analysis of Innovative Greenhouse Air Conditioning System”, HEFAT 2021 15th International Heat Transfer Fluid Mechanics and Thermodynamics Conference: Amsterdam, Netherlands; 26/07/2021 - 28/07/2021.
- Başak Dere, Levent Çolak, “Experimental and Exergetic Analysis of Innovative Greenhouse Air Conditioning System”, GCGW 2021 9th Global Conference on Global Warming: Virtual Conference; 01/08/2021 - 04/08/2021.
- V.F. Gremenok, E.P. Zaretskaya, A.V. Stanchik, V.V. Khoroshko, A.N. Pyatlitski, V.A. Saladukha, T.V. Piatlitskaya, N. Akcay, “Structural and Optical Study of Europium Doped ZnO Films Grown on Different Substrates”, European PV Solar Energy

Conference and Exhibition, EU PVSEC, which took place online, September 6th-10th, 2021.

- N.I. Staskov, V.F. Gremenok, A.N. Pyatlitski, N. Akcay and S. Ozcelik, “Incoherent spectrophotometry of soda - lime glass (SLG) substrates”, 2nd International Conference on Light and Light-Based Technologies, ICLLT-2021, which took place online, May 26th-28th, 2021, Ankara, Turkey.
- V.F. Gremenok, V.V. Khoroshko, A.N. Pyatlitski, \*N. Akcay and S. Ozcelik, “Structural and optical characterization of Cu<sub>2</sub>SnS<sub>3</sub> thin films prepared by sulfurization of sputtered Cu/Sn/Cu stack layers”, 2nd International Conference on Light and Light-Based Technologies, ICLLT-2021, which took place online, May 26th-28th, 2021, Ankara, Turkey.
- N. Akcay\*, K. P. Buskis, Y. Ozen, V. F. Gremenok, E. P. Zaretskaya and S. Ozcelik, “Fabrication of Cd-free In<sub>2</sub>S<sub>3</sub>/Cu<sub>3</sub>SnS<sub>4</sub> Heterojunction Thin Film Solar Cells”, SeeFuture PV, Latsis Symposium on Earth-abundant Matetials for Future Photovoltaics, June 22nd-24th, 2022, EPFL, Lausanne, Switzerland.
- N. I. Staskov, V. F., Gremenok, E. A. Chudakov\*, N. Akcay and S. Ozcelik, “Investigation of Optical Characteristics of In<sub>2</sub>S<sub>3</sub> Thin Films by Spectroscopic Ellipsometry and Spectrophotometry Methods”, Third International Conference on Light and Light-Based Technologies, ICLLT-2022, which took place online, May 25th-27th, 2022, Ankara, Turkey.
- V. F. Gremenok\*, E. P. Zaretskaya, K. P. Buskis, N. Akcay and I. I. Tyukhov, “Influence of sulfurization temperature on the cry stal structure of Cu<sub>2</sub>SnS<sub>3</sub> films formed by a two stage method”, International Conference on Emerging Photovoltaic Materials and Technologies, ICEPV-2022, which took place online, April 27th-29th, 2022, Ankara, Turkey.
- A. R. Yildirim\*, N. Akcay and A. Ceylan, “Characterization of Cu<sub>2</sub>ZnSnS<sub>4</sub> Films Prepared by a Hybrid Deposition System”, International Conference on Emerging Photovoltaic Materials and Technologies, ICEPV-2022, which took place online, April 27th-29th, 2022, Ankara, Turkey.
- V. F. Gremenok, \*I. I. Tyukhov, N. Akcay, E.P. Zaretskaya, V. V. Khoroshko, and Alyaxandr N. Pyatlitski, “Characterization of ZnO Films Doped by Erbium for Solar Cells as Window Layer”, Solar World Congress Virtual Conference, ISES SWC, October 25th-29th, 2021, USA.

#### **1.1.3.2. Ulusal**

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#### **1.1.4. Panelist/Davetli konuşmacı olarak katıldığı toplantı sayısı**

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#### **1.1.5. Teknik Raporlar**

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### 1.1.6. Diğer Yayınlar

**Tablo 1. Bölüm tarafından düzenlenen bilimsel seminerler**

<b>Konuşmacı</b>	<b>Konuşma Başlığı</b>	<b>Yer</b>	<b>Tarih</b>
Ece Aktaş	Endüstri 4.0 Uygulama alanları	Zoom / 20:00	25.11.2021
Mert Atasoy	Yapısal Analiz ve Uygulama Alanları	Zoom / 20:00	09.12.2021
Prof. Dr. Tahir Yavuz	Müdek Akreditasyon Bilgilendirme	Zoom / 20:00	22.12.2021
Ferhat Arslan	Ulusal ve uluslararası Standardizasyon	Zoom / 19:00	03.03.2022
İsmail Baha Martı	Termoplastikler ve Havacılık Endüstrisi	Zoom / 19:00	14.04.2022