

## Assoc. Prof. Suna AVCIOĞLU

### Personal Information

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### International Researcher IDs

ScholarID: SoCWX68AAAAJ

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Publons / Web Of Science ResearcherID: M-4719-2017

ScopusID: 56650978000

Yoksis Researcher ID: 240378

### Education Information

Doctorate, Ondokuz Mayıs University, ,, Turkey 2016 - 2022

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2014 - 2020

Postgraduate, Anadolu University, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği Ad., Turkey 2012 - 2013

Undergraduate, Anadolu University, Mühendislik - Mimarlık Fakültesi, Malzeme Bilimi Ve Mühendisliği Bölümü, Turkey 2003 - 2010

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, The production and characterization of high thermal conductive coatings for electronic applications, Ondokuz Mayıs University, ,, 2022

Doctorate, Sol-jel yöntemi ile polimerik öncülerden nükleer kalite bor karbür tozların düşük sıcaklıkta üretimi ve radyasyon kalkını olarak polimer nanokompozitlerde kullanımı, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Metalurji ve Malzeme Mühendisliği, 2020

Postgraduate, Transparan SiAlON seramiklerin sinterleme ve başlangıç kompozisyonunun etkilerinin incelenmesi, Anadolu University, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği Ad., 2013

### Research Areas

Material science and engineering, Ceramic Materials, Semiconductor and Superconductor Materials, Composites, Polymeric Materials, Plating, Material Characterization, Nanomaterials, Thermal Properties, Structure-Property Relationship, Powder Metallurgy

## Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2022 - Continues

Researcher, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2021 - 2022

Research Assistant, Ondokuz Mayıs University, Institute Of Science, 2015 - 2020

## Courses

Kompozit Malzemeler, Undergraduate, 2022 - 2023

Toz Metalurjisi, Undergraduate, 2022 - 2023

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

- I. **Production of AlN/CNT reinforced PVA nanofibers as a thermal conductive net for thermal interface applications**  
AVCIOĞLU S., Özcan M., KAYA C., KAYA F., Çevik S.  
Inorganic Chemistry Communications, vol.164, 2024 (SCI-Expanded)
- II. **Unveiling the Electrocatalytic Activity of Bifunctional Iron-Niobium Double Perovskites for Overall Water Splitting: A-Site Cation Influence**  
Avcıoğlu C., Bekheet M. F., AVCIOĞLU S., KAYA F., Kim B. C., KAYA C., Gurlo A.  
Advanced Materials Interfaces, 2024 (SCI-Expanded)
- III. **Transition Metal Borides for All-in-One Radiation Shielding**  
Avcıoğlu C., AVCIOĞLU S.  
Materials, vol.16, no.19, 2023 (SCI-Expanded)
- IV. **Boron carbide reinforced electrospun nanocomposite fiber mats for radiation shielding**  
Özcan M., Avcıoğlu S., Kaya C., Kaya F.  
Polymer Composites, vol.44, no.7, pp.4155-4167, 2023 (SCI-Expanded)
- V. **Boron Carbide as an Electrode Material: Tailoring Particle Morphology to Control Capacitive Behaviour**  
Avcıoğlu S., Buldu Aktürk M., Erdem E., Kaya F., Kaya C.  
MATERIALS, vol.16, pp.1-14, 2023 (SCI-Expanded)
- VI. **Photocatalytic Overall Water Splitting by SrTiO<sub>3</sub>: Progress Report and Design Strategies**  
Avcıoğlu C., Avcıoğlu S., Bekheet M. F., Gurlo A.  
ACS APPLIED ENERGY MATERIALS, vol.7, pp.1-21, 2023 (SCI-Expanded)
- VII. **Nature-based nanocomposites for adsorption and visible light photocatalytic degradation of methylene blue dye**  
Yontar A. K., AVCIOĞLU S., Çevik S.  
Journal of Cleaner Production, vol.380, 2022 (SCI-Expanded)
- VIII. **LDPE matrix composites reinforced with dysprosium-boron containing compounds for radiation shielding applications**  
Avcıoğlu S.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.927, pp.1-12, 2022 (SCI-Expanded)
- IX. **Electrospray deposition of AlN-PVA composite coating as thermal interface material**  
Avcıoğlu S., Uyan P., Yontar O., Çevik S.  
Materials Letters, vol.318, 2022 (SCI-Expanded)
- X. **The influence of polyelectrolyte on the synthesis of B<sub>4</sub>C/BN nanocomposite powders via sol-gel method**

AVCIOĞLU S., Ateş Z. N., KAM E., KAYA C., KAYA F.

Ceramics International, vol.48, no.11, pp.15355-15363, 2022 (SCI-Expanded)

- XI. **Solar hydrogen generation using niobium-based photocatalysts: design strategies, progress, and challenges**  
Avcıoğlu C., Avcıoğlu S., Bekheet M. F., Gurlo A.  
MATERIALS TODAY ENERGY, vol.24, pp.1-38, 2022 (SCI-Expanded)
- XII. **Morphological evolution of boron carbide particles: Sol-gel synthesis of nano/micro B4C fibers**  
Avcioğlu S., Kaya F., Kaya C.  
CERAMICS INTERNATIONAL, vol.47, no.19, pp.26651-26667, 2021 (SCI-Expanded)
- XIII. **Co-dopants effect on translucent SiAlON ceramics production**  
AVCIOĞLU S., Kurama S.  
Journal of the Australian Ceramic Society, vol.56, no.4, pp.1397-1404, 2020 (SCI-Expanded)
- XIV. **Effect of elemental nano boron on the transformation and morphology of boron carbide (B4C) powders synthesized from polymeric precursors**  
Avcioğlu S., KAYA F., Kaya C.  
CERAMICS INTERNATIONAL, vol.46, no.11, pp.17938-17950, 2020 (SCI-Expanded)
- XV. **Processing and properties of boron carbide (B4C) reinforced LDPE composites for radiation shielding**  
Avcioğlu S., Buldu M., Kaya F., Üstündağ C. B., KAM E., Menciloglu Y. Z., Kaptan H. Y., Kaya C.  
CERAMICS INTERNATIONAL, vol.46, no.1, pp.343-352, 2020 (SCI-Expanded)
- XVI. **Non-catalytic synthesis of boron carbide (B4C) nano structures with various morphologies by sol-gel process**  
avcıoğlu S., KAYA F., Kaya C.  
MATERIALS LETTERS, vol.249, pp.201-205, 2019 (SCI-Expanded)
- XVII. **Investigation of the influence of initial powder size on the optical properties of Dy- $\alpha$ -SiAlON ceramics fabricated by gas pressure sintering**  
AVCIOĞLU S., Kurama S.  
Ceramics International, vol.43, 2017 (SCI-Expanded)
- XVIII. **Spark plasma sintering of translucent Dy-Y doped  $\alpha$ -SiAlON: Study of sintering parameters influence on the optical properties by using taguchi method**  
AVCIOĞLU S., Kurama S.  
Acta Physica Polonica A, vol.131, no.1, pp.174-177, 2017 (SCI-Expanded)
- XIX. **Spark plasma sintering of translucent Dy-Y doped  $\alpha$ -SiAlON: Study of sintering parameters influence on the optical properties by using taguchi method**  
Avcioğlu S., Kurama S.  
ACTA PHYSICA POLONICA A, vol.131, pp.174-177, 2017 (SCI-Expanded)
- XX. **Optimization of the optical properties of  $\alpha$ -SiAlON through a decrease in starting powder size**  
Kurama S., AVCIOĞLU S., Ayas E.  
Journal of the European Ceramic Society, vol.35, no.12, pp.3229-3235, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **FABRICATION OF A NOVEL FeB-B4C COMPOSITE POWDER AND EVALUATING ITS POTENTIAL FOR ENERGY STORAGE APPLICATIONS**  
AVCIOĞLU S.  
Eskişehir Technical University Journal of Science and Technology A- Applied Sciences and Engineering, vol.24, no.3, pp.207-215, 2023 (Peer-Reviewed Journal)
- II.  **$\alpha$ -SiAlON Seramiklerin Optik Özelliklerinin İki Aşamalı Yüksek Enerjili Öğütme Yöntemi Kullanılarak Geliştirilmesi**  
AVCIOĞLU S., KURAMA S., AYAS E., GÜRCAN K.

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, pp.1051-1057, 2020 (ESCI)

III. **New Application Area for Nitride Based Ceramics as Optical Materials**

Avcıoğlu S., Kurama S.

IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING, vol.774, no.1, pp.1-6, 2020 (Peer-Reviewed Journal)

IV. **Translucent  $\alpha$ - and  $\alpha/\beta$ -SiAlON ceramics: study on investigation of the relationship between phase diversity and optical properties**

Avcıoğlu S., Kurama S.

INTERNATIONAL JOURNAL OF MICROSTRUCTURE AND MATERIALS PROPERTIES, vol.15, no.1, 2020 (Scopus)

V. **SINGLE STEP SOLID-STATE SYNTHESIS OF LANTHANUM MOLYBDATE**

AVCIOĞLU S., MUTUK T., GÜRBÜZ M., ÇEVİK S.

ADVANCES IN MATERIALS SCIENCE, vol.19, no.3, pp.47-54, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Chapter 20 - Synthesis of nuclear-grade nano-sized boron carbide powders and its application in LDPE matrix composites for neutron shielding**

Avcıoğlu S., Buldu Aktürk M., Kaya F., Kaya C.

in: Composite Materials: Manufacturing, Properties and Applications, It-Meng Low, Yu Dong, Editor, Elsevier Science, Oxford/Amsterdam, Oxford, pp.543-579, 2021

## Refereed Congress / Symposium Publications in Proceedings

I. **DISCOVERING THE POTENTIAL OF B<sub>4</sub>C-BN NANOCOMPOSITE POWDERS FOR THE FABRICATION OF NEW-GENERATION SUPERCAPACITOR ELECTRODES**

AVCIOĞLU S., KAYA F., KAYA C.

3rd International Materials Technologies and Metallurgy Conference, İstanbul, Turkey, 11 - 13 October 2023

II. **NON-CATALYTIC SOL-GEL SYNTHESIS OF NANO/MICRO B<sub>4</sub>C FIBERS AND ITS UTILIZATION IN ELECTRODES FOR SUPERCAPACITORS**

İmamoğlu V. E., AVCIOĞLU S., KAYA F., KİM B. C., GÖLLER G., KAYA C.

3rd International Materials Technologies and Metallurgy Conference, İstanbul, Turkey, 11 - 13 October 2023

III. **Tuning The Morphology of Boron Carbide by Optimizing Sol-Gel Processing Conditions: From Polyhedral-Equiaxed to Nanowires**

AVCIOĞLU S., KAYA F., KAYA C.

Particle-Based Materials Symposium 2023 at Technische Universität Braunschweig, Braunschweig, Germany, 5 - 06 October 2023

IV. **Effect of Starting Composition on the Morphology of Sol-Gel Synthesized Boron Carbide (B<sub>4</sub>C) Particles**

Tümkaya S., AVCIOĞLU S., KAYA F., KAYA C.

21st International Metallurgy and Materials Congress, İstanbul, Turkey, 06 October 2022

V. **Controlled sol-gel synthesis of boron carbide for energy storage applications**

Tümkaya S., AVCIOĞLU S., KAYA F., KAYA C.

International Conference On Emerging Sources In Science, Turkey, 26 May 2022

VI. **Development of High Thermal Conductive AlN-CNT Nanocomposite Coatings for Thermal Management of Defence and Aviation Electronics**

Sügeç i., Sarı F., AVCIOĞLU S., UYAN P., ÇEVİK S.

V. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'21), Turkey, 13 October 2021

VII. **Sol-Gel Synthesis of B<sub>4</sub>C-BN Composite Powders for Nuclear Shielding Applications**

AVCIOĞLU S., ateş z. n., KAM E., KAYA C., KAYA F.

- V. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'21), Turkey, 13 October 2021
- VIII. **Sol-Gel Synthesis of Boron Carbide (B4C) Nanofibers**  
AVCIOĞLU S., KAYA F., KAYA C.  
V. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'21), Turkey, 13 October 2021
- IX. **Understanding of the growth mechanisms of boron carbide fibers under non-catalytic conditions**  
KAYA C., AVCIOĞLU S., KAYA F.  
V. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'21), Turkey, 13 October 2021
- X. **Morphological Evolution of Boron Carbide Particles: Sol-Gel Synthesized Highly Crystalline B4C Whiskers**  
AVCIOĞLU S., KAYA F., KAYA C.  
20th International Metallurgy & Materials Congress (IMMC 2021), İstanbul, Turkey, 10 June 2021
- XI. **Fabrication of Boron Carbide (B4C) Nanofibers via Sol-Gel Technique**  
AVCIOĞLU S., KAYA F., KAYA C.  
International Workshop on Advanced Materials (IWAM), Dubai, United Arab Emirates, 25 February 2020
- XII. **New Application Area for Nitride Based Ceramics as Optical Materials**  
Kurama S., AVCIOĞLU S.  
3rd International Conference on Mechanical Engineering and Applied Composite Materials, MEACM 2019, Singapore, Singapore, 22 - 23 November 2019, vol.744
- XIII. **YSZ Katkılı Atık Döküm Kumundan Seramik Malzeme Üretimi**  
Yükselecek H., AVCIOĞLU S., ÇEVİK S.  
2. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, 29 December 2019
- XIV. **Cu-ZnO Katkılı PVC Kompozitlerin Antibakteriyel Özelliklerinin Geliştirilmesi**  
Moral G., AVCIOĞLU S., ÇEVİK S.  
2. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, 29 December 2019
- XV. **New Application Area for Nitride Based Ceramic As Optical Materials**  
KURAMA S., AVCIOĞLU S.  
3th International Conference on Mechanical Engineering and Applied Composite Materials, 22 - 23 November 2019
- XVI. **Fabrication of nuclear grade boron carbide (B4C) powders by modified sol-gel technique**  
KAYA C., AVCIOĞLU S.  
International Materials Technologies and Metallurgy Conference, 31 October - 01 November 2019
- XVII. **Sustainable production of nuclear grade boron carbide (B4C) powders and its application as radiation shielding**  
KAYA C., MENCELOĞLU Y. Z., AVCIOĞLU S., KAPTAN H. Y., KAYA F., ÜSTÜNDAĞ C. B., BULDU M.  
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, 4 - 09 September 2019
- XVIII. **High Thermal Conductive CNT-ALN Nano-Hybrid Coatings for Electronic Applications**  
AVCIOĞLU S., ÇEVİK S.  
The International Porous and Powder Materials Symposium and Exhibition (PPM 2019), Marmaris, Turkey, 09 September 2019
- XIX. **Ceramic Materials Production by Reusing of Wastes of Foundries**  
ÇEVİK S., Kovacı B., AVCIOĞLU S.  
The International Porous and Powder Materials Symposium and Exhibition (PPM 2019), Marmaris, Turkey, 09 September 2019
- XX. **Nano boron carbide (B4C) reinforced polymer matrix composites for shielding and engineering applications: issues and challenges**  
KAYA C., ÜSTÜNDAĞ C. B., KAYA F., AVCIOĞLU S., Buldu M., MENCELOĞLU Y. Z., KAM E., KAPTAN H. Y.  
5th International Conference on Traditional and Advanced Ceramics, 28 - 29 August 2019
- XXI. **Processing of nano boron carbide reinforced flexible polymer composites with improved shielding properties**  
KAYA C., KAYA F., AVCIOĞLU S., KAM E., ÜSTÜNDAĞ C. B., MENCELOĞLU Y. Z., Buldu M.  
6th Global Conference on Polymer and Composite Materials, 8 - 11 July 2019

- XXII. **Processing and Properties of New Generation Radiation Shielding Nano Composites**  
KAYA C., AVCIOĞLU S., buldu m., KAYA F., ÜSTÜNDAĞ C. B., KAM E., MENCELOĞLU Y. Z.  
Collaborative Conference on Materials Research (CCMR 2019), 3 - 07 June 2019
- XXIII. **Processing of Surface Modified Nano Boron Carbide (B4C) Containing Flexible Composites as Shielding Materials Flexible Composites as Shielding Materials**  
KAYA C., KAYA F., AVCIOĞLU S., MENCELOĞLU Y. Z., Buldu M.  
The 2nd International Conference on Material Strength and Applied Mechanics, 27 - 30 May 2019
- XXIV. **Optimization of Sol-Gel Synthesized Pre-ceramic Polymer Precursors for Fabrication of High Purity Boron Carbide (B4C) Powders**  
AVCIOĞLU S., KAYA F., KAYA C.  
Uluslararası Bor Sempozyumu (BORON2019), 17 - 19 April 2019
- XXV. **High-Frequency Induction Heating Sintering of Electro-spray Deposited La<sub>2</sub>Mo<sub>2</sub>O<sub>9</sub>**  
AVCIOĞLU S., MUTUK T., GÜRBÜZ M., ÇEVİK S.  
19. Uluslararası Metalurji ve Malzeme Kongresi, 25 - 27 October 2018
- XXVI. **Synthesis of High Purity Boron Carbide Powder via Sol Gel Method**  
AVCIOĞLU S., KAYA F., KAYA C.  
IMMC2018 19th International Metallurgy and Materials Congress, 25 - 27 October 2018
- XXVII. **Recycling of Waste Ferrous Powders Obtained from Waste Foundry Sand to Matrix Material**  
ÇEVİK S., Kovacı B., AVCIOĞLU S., GÜRBÜZ M.  
19th International Metallurgy Materials Congress (IMMC 2018), 25 - 27 October 2018
- XXVIII. **The effect of phase diversity on the optical properties of SiAlON ceramics**  
AVCIOĞLU S., KURAMA S.  
18th International Metallurgy and Materials Congress, 25 - 27 October 2018
- XXIX. **Salvage of Waste Steel Powder: Its Potential Use on Ceramic Manufacturing**  
AVCIOĞLU S., ÇEVİK S., Kovacı B.  
2. International Congress On New Trends In Science, Engineering and Technology, 4 - 06 September 2018
- XXX. **Low temperature synthesis and characterization of high purity nano boron carbide (B4C) structures**  
KAYA C., AVCIOĞLU S., KAYA F.  
IV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress SERES 2018, 10 - 12 October 2018
- XXXI. **TAILORING THE MORPHOLOGY AND COMPOSITION OF SOL GEL SYNTHESIZED BORON CARBIDE (B4C) POWDERS BY CONTROLLING THE GEL NETWORK**  
KAYA F., AVCIOĞLU S., KAYA C.  
IV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress SERES 2018, 10 - 12 October 2018
- XXXII. **Tailoring the Morphology and Composition of Sol-Gel Synthesized Boron Carbide (B4C) Powders by Controlling the Gel Network**  
KAYA F., AVCIOĞLU S., KAYA C.  
IV. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'18), Eskişehir, Turkey, 10 October 2018
- XXXIII. **The Effect Of Waste Foundry Sand On The Densification Of Cement Mortars**  
DEMİRBAŞ A. K., ÇEVİK S., MUTUK T., AVCIOĞLU S.  
II. International Congress on New Trends in Science, Engineering and Technology, Roma, Italy, 4 - 06 September 2018
- XXXIV. **New opportunities for fabrication of highly translucent SiAlON nano ceramics**  
KURAMA S., AVCIOĞLU S.  
3rd International Conference on Materials Science and Technology in Cappadocia (IMSTEC18), 17 - 19 September 2018
- XXXV. **Enhancing the optical properties of α-SiAlON ceramics: powder to sintered body**  
AVCIOĞLU S., KURAMA S.  
International Congress on New Trends in Science, Engineering and Science, (ICONTRENDS18), 4 - 06 September 2018
- XXXVI. **Co-dopants effect on translucent SAION ceramics production**  
KURAMA S., AVCIOĞLU S.

The 2018 World Congress on Advances in Civil, Environmental Materials Research The 2018 Structures Congress, 28 - 31 August 2018

- XXXVII. **Processing and Properties of Novel Nano Boron Carbide (B<sub>4</sub>C) Structures**  
KAYA C., AVCIOĞLU S., KAYA F.  
International Conference on Advanced Materials Research and Manufacturing Technologies (AMRMT 2018), 11 - 13 August 2018
- XXXVIII. **Novel Boron Carbide (B<sub>4</sub>C) Structures with Controlled Morphology for Shielding Applications**  
KAYA C., AVCIOĞLU S., KAYA F.  
2018 Collaborative Conference on Materials Research (CCMR), 25 - 28 June 2018
- XXXIX. **LOW TEMPERATURE SYNTHESIS OF B<sub>4</sub>C: INFLUENCE OF CITRIC ACID ADDITION**  
AVCIOĞLU S., KAYA F., KAYA C.  
IMSMATEC 2018, 10 - 12 April 2018
- XL. **A Novel Manufacturing Route for Translucent  $\alpha$ -SiAlON Ceramics**  
AVCIOĞLU S., KURAMA S.  
IMSMATEC'18, The International Conference on Materials Science Mechanical and Automotive Engineering and Technology, 10 - 12 April 2018
- XLI. **Improving of Functional properties of SiAlON Ceramics is Utopia or not?**  
KURAMA S., AVCIOĞLU S.  
The International Conference on Materials Science Mechanical and Automotive Engineering and Technology (IMSMATEC'18), 10 - 12 April 2018
- XLII. **New Trends in Thermal Interface Materials for High-Power LED Packaging Systems**  
AVCIOĞLU S., ÇEVİK S.  
International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 November 2017
- XLIII. **Effects of dopant addition Optical Properties of SPS-ed  $\alpha$ -SiAlON Ceramics**  
AVCIOĞLU S., KURAMA S.  
International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMTSIT 2017), 2 - 04 November 2017
- XLIV. **LED PACKAGING SYSTEMS: AIN THIN FILMS AND PRODUCTION**  
ÇEVİK S., AVCIOĞLU S.  
The International Porous and Powder Materials Symposium and Exhibition, PPM 2017, 12 - 15 September 2017
- XLV. **COMPOSITES PRODUCED BY WASTE STEEL POWDER WITH ADDITION OF CARBON NANOTUBES**  
Kovacı B., ÇEVİK S., AVCIOĞLU S.  
The International Porous and Powder Materials Symposium and Exhibition, PPM 2017, 12 - 15 September 2017
- XLVI. **Influence of Composition on Optical Properties of Y- $\alpha$ -Sialons**  
KURAMA S., AVCIOĞLU S.  
ECerS 2017-15th Conference Exhibition of the European Ceramic Society, 9 - 13 July 2017
- XLVII. **Recent Advances in Boron-Based Solid State Hydrogen Storage Technologies**  
AVCIOĞLU S., KAYA F.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL, 25 - 28 April 2017
- XLVIII. **Translucent La- $\alpha$ -SiAlON ceramics fabricated by spark plasma sintering (SPS)**  
AVCIOĞLU S., KURAMA S.  
International Conference on Energy and Thermal Engineering, 25 - 28 April 2017
- XLIX. **Investigation on the influence of initial powder size on optical properties of Dy SiAlON ceramics fabricated by gas pressure sintering**  
AVCIOĞLU S., KURAMA S.  
10th Asian Meeting on Electroceramics (AMEC-10, 2016), Taipei/Taiwan, 4 - 07 December 2016
- L. **Improving Mechanical Properties of Soft Polyurethane by Reinforcing with Multiwall Carbon Nanotubes MWCNTs**  
Akyüz G. D., AVCIOĞLU S., DEMİRCAN Ö.  
The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), 16 - 19 October 2016
- LI. **Translucent SiAlON Ceramics Produced by Gass Pressure Sintering GPS Method**

AVCIOĞLU S., KURAMA S.

18th International Metallurgy & Materials Congress, 29 September - 01 October 2016

- LII. **Spark plasma sintering of translucent Dy Y doped SiAlON Study of sintering paramaters influence on the optical properties by using taguchi method**

AVCIOĞLU S., KURAMA S.

International Advances in Applied Physics and Materials Science Congress & Exhibition, 1 - 03 June 2016

- LIII. **The investigation of optical properties of translucent dual cation dopped SiAlON ceramics**

AVCIOĞLU S., KURAMA S.

Uluslararası Malzeme Bilimi ve Teknolojisi Konferansı Kapadokya (IMSTEC'16), 6 - 08 April 2016

- LIV. **Optical properties of GPS ed Dy and Dy Y doped alpha SiAlON ceramics 14th International Conference European Ceramic Society 21 25 June 2015 Toledo Spain**

Kurama S., Avcioğlu S.

14th International Conference European Ceramic Society, Toledo, Philippines, 21 - 25 June 2015

- LV. **Optimization of optical properties of alpha SiAlON by decreasing of starting powder size 8th International Symposium on Nitrides in conjunction with 7th International Workshop on Spinel Nitrides and Related Materials and Marie Curie ITN 7th Framework Program FUNEA ISNT 2014 pp 106 Agust 31st September 5th 2014 Wildbad Kreuth Germany**

Kurama S., Avcioğlu S., Ayas E.

8th International Symposium on Nitrides in conjunction with 7th International Workshop on Spinel Nitrides and Related Materials and Marie Curie ITN 7th Framework Program FUNEA (ISNT 2014), pp. 106, Agust 31st- September 5th, 2014, Zwickau, Germany, 31 August - 05 September 2014

## Supported Projects

Kaya C., Kaya F., Erdem E., Avcioğlu S., TUBITAK Project, Katalitik Olmayan Sol-Jel Yöntemiyle Bor Karbür (B4C) Nano-Fiberlerin Üretimi, Karakterizasyonu Ve Uygulamaları, 2021 - 2024

Çevik S., Avcioğlu S., Project Supported by Higher Education Institutions, Isıl Arayüz Uygulamaları için Yüksek Isıl İletkenliğe Sahip Nano Hibrit Polimer Matris Kompozitlerin Üretimi ve Geliştirilmesi, 2021 - 2022

Demircan Ö., Gürbüz M., Avcioğlu S., Demirbaş A. K., Project Supported by Higher Education Institutions, Karbon Nano Tüp-Grafen Nano Parçacıklı (CNT-GNP) elyaf takviyeli termoplastik kompozitlerin arayüzey özelliklerinin iyileştirilmesi ve otomotiv ve havacılık sektörlerinde uygulamalarının araştırılması, 2018 - 2022

Demircan Ö., İnanç İ., Mutuk T., Kuru M., Yiğiter M., Avcioğlu S., Project Supported by Higher Education Institutions, Ondokuz Mayıs Üniversitesi-Metalürji ve Malzeme Mühendisliği Bölümünün Lisans Laboratuvarlarının Öğretim Altyapısının Geliştirilmesi, 2020 - 2021

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