

Prof. Figen KAYA

Personal Information

Fax Phone: [+90 212 383 4665](tel:+902123834665)

Email: fkaya@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/fkaya>

Address: Metalurji ve Malzeme Mühendisliği Bölümü, Davutpaşa Kampüsü, Esenler, İstanbul

International Researcher IDs

ScholarID: B3_FEvAAAAAJ

ORCID: 0000-0002-6652-7062

Publons / Web Of Science ResearcherID: JAN-8198-2023

ScopusID: 7003619646

Yoksis Researcher ID: 58290

Education Information

Doctorate, The University of Birmingham, Faculty of Engineering, Department of Metallurgy and Materials, United Kingdom 1999 - 2002

Postgraduate, University of Birmingham, Faculty of Engineering, Department of Metallurgy and Materials, United Kingdom 1996 - 1999

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 1989 - 1992

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Quality Management, ISO 9001 Kalite Yönetim Sistemi Denetçisi,, YTÜ, 2012, 2012

Education Management and Planning, Yüksek Öğretimde Eğitimci Eğitimi, Bülent Ecevit Üniversitesi, 2009

Other, UNIDO Technology Foresight for Organizers, UNIDO-TUBITAK-SANAYİ BAKANLIĞI, 2008

Other, Acoustic Emission Testing, Physical Acoustic Corporation, 1998

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Nanomaterials, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2013 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2011 - 2013

Associate Professor, Bülent Ecevit Üniversitesi, Mühendislik, Metalurji Mühendisliği, 2008 - 2011

Assistant Professor, Bülent Ecevit Üniversitesi, Mühendislik, Metalurji Mühendisliği, 2004 - 2008

Research Assistant PhD, Bülent Ecevit Üniversitesi, Mühendislik, Metalurji Mühendisliği, 2004 - 2004

Research Assistant PhD, University of London-Queen Mary and Westfield College, Mühendislik, Metalurji Ve Malzeme Mühendisliği, 2002 - 2004

Research Assistant, The University of Birmingham, Mühendislik, Metalurji Ve Malzeme Mühendisliği, 1996 - 2002

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 1994 - 1995

Academic and Administrative Experience

Bülent Ecevit Üniversitesi, Uluslararası İlişkiler Birimi, 2004 - 2011

Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Metalurji Mühendisliği, 2004 - 2011

Advising Theses

Kaya F., Kalkanlama malzemesi olarak kullanılabilir bor karbür takviyeli hafif ve esnek polimer nanokompozitlerin geliştirilmesi ve karakterizasyonu, Doctorate, M.ÖZCAN(Student), 2022

Kaya F., Depolamada kullanılan gözenekli bor yapıların üretilmesi ve karakterizasyonu, Postgraduate, G.YELTİK(Student), 2022

Kaya F., Kam E., Polielektrolit ve sürfaktan kullanımının bor karbür tozunun sol-jel metodu ile sentezi üzerindeki etkilerinin incelenmesi, Postgraduate, Z.NAZ(Student), 2022

Kaya F., Sol-jel yöntemi ile polimerik öncülerden nükleer kalite bor karbür tozların düşük sıcaklıkta üretimi ve radyasyon kalkanı olarak polimer nanokompozitlerde kullanımı, Doctorate, S.AVCIOĞLU(Student), 2020

KAYA F., ÇİNKO OKSİT (ZnO) ve TİTANYUM DİOKSİT (TiO₂) NANOTÜPLERİN HAVA FİLTRASYONUNDA TEMİZLEYİCİ NANOMALZEME OLARAK KULLANILMASININ ARAŞTIRILMASI, Postgraduate, M.Özcan(Student), 2016

KAYA F., Transparan Altıklıklar Üzerine Nanoyapıların Yönlenmiş Olarak Kaplanması ve Özelliklerinin Belirlenmesi, Postgraduate, Ç.Bakkaloğlu(Student), 2016

KAYA F., Çeşitli Nanoyapıların Sentezi ve Karakterizasyonu, Postgraduate, G.Özgün(Student), 2016

KAYA F., Karbon Nanotüplerin Kantitatif Analizleri, İnorganik Nanoyapılı Malzemelerin Sentezi ve Karakterizasyonu, Doctorate, A.Can(Student), 2016

KAYA F., Synthesis and Applications of Various Metal Oxide Nanotubes., Postgraduate, T.İpeksaç(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, vol.12, no.1, 2025 (SCI-Expanded)
- II. **Electrospun hexagonal boron nitride/CNT reinforced nanocomposite fiber mats for cosmic radiation shielding**
ERSOY S., Özcan M., KAYA C., KAYA F.
Journal of Vinyl and Additive Technology, vol.30, no.5, pp.1302-1316, 2024 (SCI-Expanded)
- III. **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)

- IV. **Photocatalytic properties of ZnO nanoparticle coating on porous ceramic substrates with varying porosities produced from fly ash and red mud**
Özcan M., Birol B., Dülger Kutlu Ö., Kaya F.
International Journal of Applied Ceramic Technology, vol.21, no.3, pp.1995-2009, 2024 (SCI-Expanded)
- V. **Synthesis of 1D boron trioxide nanorods via heat treatment of electrospun PVA nanofibers decorated with amorphous boron**
Özcan M., Kaya C., Kaya F.
Materials Letters, vol.351, 2023 (SCI-Expanded)
- VI. **An Optimization Study for the Electrospun Borate Ester Nanofibers as Light-Weight, Flexible, and Affordable Neutron Shields for Personal Protection**
Özcan M., Kaya C., Kaya F.
Macromolecular Materials and Engineering, vol.308, no.11, 2023 (SCI-Expanded)
- VII. **Boron carbide reinforced electrospun nanocomposite fiber mats for radiation shielding**
Özcan M., Avcioglu S., Kaya C., Kaya F.
Polymer Composites, vol.44, no.7, pp.4155-4167, 2023 (SCI-Expanded)
- VIII. **Boron Carbide as an Electrode Material: Tailoring Particle Morphology to Control Capacitive Behaviour**
Avcioglu S., Buldu Aktürk M., Erdem E., Kaya F., Kaya C.
MATERIALS, vol.16, pp.1-14, 2023 (SCI-Expanded)
- IX. **The influence of polyelectrolyte on the synthesis of B₄C/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)
- X. **Boron-containing nonwoven polymeric nanofiber mats as neutron shields in compact nuclear fusion reactors**
ÖZCAN M., KAM E., KAYA C., KAYA F.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.6, pp.7441-7450, 2022 (SCI-Expanded)
- XI. **Morphological evolution of boron carbide particles: Sol-gel synthesis of nano/micro B₄C fibers**
Avcioglu S., Kaya F., Kaya C.
CERAMICS INTERNATIONAL, vol.47, no.19, pp.26651-26667, 2021 (SCI-Expanded)
- XII. **Investigation of photocatalytic properties of TiO₂ nanoparticle coating on fly ash and red mud based porous ceramic substrate**
ÖZCAN M., BİROL B., KAYA F.
Ceramics International, vol.47, pp.24270-24280, 2021 (SCI-Expanded)
- XIII. **A study on optimum surfactant to multiwalled carbon nanotube ratio in alcoholic stable suspensions via UV-Vis absorption spectroscopy and zeta potential analysis**
ZAMAN A. C., KAYA F., KAYA C.
CERAMICS INTERNATIONAL, vol.46, no.18, pp.29120-29129, 2020 (SCI-Expanded)
- XIV. **A novel method for graphene synthesis via electrochemical process and its utilization in organic photovoltaic devices**
Dericiler K., Alishah H. M., Bozar S., GÜNEŞ S., KAYA F.
Applied Physics A: Materials Science and Processing, vol.126, no.11, 2020 (SCI-Expanded)
- XV. **Effect of elemental nano boron on the transformation and morphology of boron carbide (B₄C) powders synthesized from polymeric precursors**
Avcioglu S., KAYA F., Kaya C.
CERAMICS INTERNATIONAL, vol.46, no.11, pp.17938-17950, 2020 (SCI-Expanded)
- XVI. **Processing and properties of boron carbide (B₄C) reinforced LDPE composites for radiation shielding**
Avcioglu 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)

- XVII. **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)
- XVIII. **Synthesis, structure and characterization of hydrothermally synthesized Ag-TiO₂ nano-structures onto Ni filters using electrophoretic deposition**
noberi C., KAYA F., Kaya C.
CERAMICS INTERNATIONAL, vol.42, no.15, pp.17202-17209, 2016 (SCI-Expanded)
- XIX. **Template-free hydrothermal method for the synthesis of multi-walled CuO nanotubes**
Ipeksac T., KAYA F., Kaya C.
MATERIALS LETTERS, vol.130, pp.68-70, 2014 (SCI-Expanded)
- XX. **Investigation of antileishmanial activities of TiO₂@Ag nanoparticles on biological properties of L-tropica and L-infantum parasites, in vitro**
ALLAHVERDİYEV A., ABAMOR E. Ş., BAĞIROVA M., Baydar S. Y., Ates S. C., KAYA F., Kaya C., Rafailovich M.
EXPERIMENTAL PARASITOLOGY, vol.135, no.1, pp.55-63, 2013 (SCI-Expanded)
- XXI. **Hydrothermal synthesis of Zinc oxide (ZnO) nanotubes and its electrophoretic deposition on nickel filter**
Ipeksac T., KAYA F., Kaya C.
MATERIALS LETTERS, vol.100, pp.11-14, 2013 (SCI-Expanded)
- XXII. **Hydrothermally Mixed Hydroxyapatite-Multiwall Carbon Nanotubes Composite Coatings on Biomedical Alloys by Electrophoretic Deposition**
Ustundag C. B., Avciata O., Kaya F., Kaya C.
JOURNAL OF PHYSICAL CHEMISTRY B, vol.117, pp.1571-1576, 2013 (SCI-Expanded)
- XXIII. **Production of tubular porous hydroxyapatite using electrophoretic deposition**
Üstündağ C. B., Kaya F., Kamitakahara M., Kaya C., Ioku K.
JOURNAL OF THE CERAMIC SOCIETY OF JAPAN, vol.120, no.1408, pp.569-573, 2012 (SCI-Expanded)
- XXIV. **OH and COOH functionalized single walled carbon nanotubes-reinforced alumina ceramic nanocomposites**
Zaman A. C., Üstündağ C. B., Kaya F., Kaya C.
CERAMICS INTERNATIONAL, vol.38, pp.1287-1293, 2012 (SCI-Expanded)
- XXV. **Electrophoretic deposition of hydrothermally synthesised Ag-TiO₂ hybrid nanoparticles onto 3-D Ni filters**
Noberi C., Zaman A. C., Üstündağ C. B., Kaya F., Kaya C.
MATERIALS LETTERS, vol.67, pp.113-116, 2012 (SCI-Expanded)
- XXVI. **Synthesis and electrophoretic deposition of hydrothermally synthesized multilayer TiO₂ nanotubes on conductive filters**
Zaman A. C., Üstündağ C. B., Kaya F., Kaya C.
MATERIALS LETTERS, vol.66, pp.179-181, 2012 (SCI-Expanded)
- XXVII. **Antileishmanial effect of silver nanoparticles and their enhanced antiparasitic activity under ultraviolet light**
Allahverdiyev A., Abamor E. Ş., Bagirova M., Üstündağ C. B., Kaya C., Kaya F., Rafalovich M.
INTERNATIONAL JOURNAL OF NANOMEDICINE, vol.6, pp.2705-2714, 2011 (SCI-Expanded)
- XXVIII. **Carbon nanotube/boehmite-derived alumina ceramics obtained by hydrothermal synthesis and spark plasma sintering (SPS)**
Zaman A. C., Üstündağ C. B., Celik A., Kara A., Kaya F., Kaya C.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.30, pp.3351-3356, 2010 (SCI-Expanded)
- XXIX. **Damage Detection in Fibre Reinforced Ceramic and Metal Matrix Composites by Acoustic Emission.**
KAYA F.
Key Engineering Materials, 2010 (SCI-Expanded)
- XXX. **3-D micro-ceramic components from hydrothermally processed carbon nanotube-boehmite powders by electrophoretic deposition**

- Zaman A. C., Üstündağ C. B., Kuskonmaz N., Kaya F., Kaya C.
CERAMICS INTERNATIONAL, vol.36, no.5, pp.1703-1710, 2010 (SCI-Expanded)
- XXXI. **Carbon Nanotube-Reinforced Hydroxyapatite Biocomposite Coatings by Hydrothermal Synthesis and Electrophoretic Deposition (EPD)**
Kaya C., Üstündağ C. B., Kaya F.
Journal Of Biomechanics, vol.43, pp.58-59, 2010 (SCI-Expanded)
- XXXII. **Production of Tubular Shape Macroporous Hydroxyapatite Ceramic Tubes Using Electrophoretic Deposition (EPD)**
Üstündağ C. B., Ioku K., Kaya F., Kaya C.
Journal Of Biomechanics, vol.43, pp.8-9, 2010 (SCI-Expanded)
- XXXIII. **Electrophoretic deposition of carbon nanotube-ceramic nanocomposites**
Boccaccini A. R., Cho J., Subhani T., KAYA C., Kaya F.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.30, no.5, pp.1115-1129, 2010 (SCI-Expanded)
- XXXIV. **Electrophoretic deposition of carbon nanotube ceramic nanocomposites**
aldo b., KAYA C., KAYA F.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.30, pp.1115-1119, 2010 (SCI-Expanded)
- XXXV. **Carbon nanotube-reinforced hydroxyapatite coatings on metallic implants using electrophoretic deposition**
KAYA C., Kaya F., Cho J., Roether J., Boccaccini A.
Key Engineering Materials, vol.412, pp.93-97, 2009 (SCI-Expanded)
- XXXVI. **Development and characterisation of high-density oxide fibre-reinforced oxide ceramic matrix composites with improved mechanical properties**
KAYA C., Kaya F., Butler E., Boccaccini A. R., Chawla K.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.29, no.9, pp.1631-1639, 2009 (SCI-Expanded)
- XXXVII. **Effect of increased interfacial strength on the fatigue crack growth resistance and crack opening displacement of beta Ti21S/SCS 6 composites**
KAYA F., Bowen P.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.476, pp.301-307, 2008 (SCI-Expanded)
- XXXVIII. **Processing and characterization of ultra-high temperature oxide fiber-reinforced oxide ceramic matrix composites with improved thermomechanical properties**
KAYA C., Kaya F.
Key Engineering Materials, vol.368-372 PART 2, pp.1778-1781, 2008 (SCI-Expanded)
- XXXIX. **In-situ observation of crack opening displacement (COD) in a metastable beta titanium composite**
KAYA F., Bowen P., Liu J.
JOURNAL OF MATERIALS SCIENCE, vol.43, no.1, pp.270-280, 2008 (SCI-Expanded)
- XL. **Tensile strength degradation of ceramic fibres due to cyclic loading**
KAYA F.
JOURNAL OF MATERIALS SCIENCE, vol.42, no.4, pp.1096-1107, 2007 (SCI-Expanded)
- XLI. **Damage assessment of oxide fibre reinforced oxide ceramic matrix composites using acoustic emission**
KAYA F.
CERAMICS INTERNATIONAL, vol.33, no.2, pp.279-284, 2007 (SCI-Expanded)
- XLII. **Structural and functional thick ceramic coatings by electrophoretic deposition**
KAYA C., Kaya F., Su B., Thomas B., Boccaccini A.
SURFACE & COATINGS TECHNOLOGY, vol.191, pp.303-310, 2005 (SCI-Expanded)
- XLIII. **Electrophoretic deposition of ceramic coatings on ceramic composite substrates**
KAYA C., Kaya F., Atiq S., Boccaccini A. R.
BRITISH CERAMIC TRANSACTIONS, vol.102, no.3, pp.99-102, 2003 (SCI-Expanded)
- XLIV. **Electrophoretic deposition infiltration of 2-D metal fibre-reinforced cordierite matrix composites of tubular shape**

- KAYA F., Kaya F., Boccaccini A.
JOURNAL OF MATERIALS SCIENCE, vol.37, no.19, pp.4145-4153, 2002 (SCI-Expanded)
- XLV. **Fabrication of stainless-steel-fiber-reinforced cordierite-matrix composites of tubular shape using electrophoretic deposition**
KAYA C., Kaya F., Boccaccini A. R.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.85, no.10, pp.2575-2577, 2002 (SCI-Expanded)
- XLVI. **Non-destructive damage evaluation of cyclic-fatigued alumina fiber-reinforced mullite ceramic matrix composites using forced resonance and acoustic emission techniques**
KAYA C., Kaya F., Mori H.
JOURNAL OF MATERIALS SCIENCE LETTERS, vol.21, no.17, pp.1333-1335, 2002 (SCI-Expanded)
- XLVII. **Electrophoretic deposition infiltration of two dimensional metal fibre-reinforced cordierite matrix composites of tubular shape**
KAYA C., Kaya F., Boccaccini A. R.
JOURNAL OF MATERIALS SCIENCE, vol.37, no.19, pp.4145-4153, 2002 (SCI-Expanded)
- XLVIII. **Damage assessment of alumina fibre-reinforced mullite ceramic matrix composites subjected to cyclic fatigue at ambient and elevated temperatures**
KAYA C., Kaya F., Mori H.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.22, no.4, pp.447-452, 2002 (SCI-Expanded)
- XLIX. **Colloidal processing of glassy-phase-free mullite from heterocoagulated boehmite/silica nanocomposite sol particles**
KAYA F., Kaya F., Boccaccini A.
ADVANCED ENGINEERING MATERIALS, vol.4, pp.21-29, 2002 (SCI-Expanded)
- L. **Fabrication and characterisation of Ni-coated carbon fibre-reinforced alumina ceramic matrix composites using electrophoretic deposition**
KAYA C., Kaya F., Boccaccini A. R., Chawla K. K.
ACTA MATERIALIA, vol.49, no.7, pp.1189-1197, 2001 (SCI-Expanded)
- LI. **On the toughening mechanisms of SiC platelet-reinforced Al₂O₃/Y-TZP nano-ceramic matrix composites**
Kaya C., Kaya F., Trusty P., Boccaccini A., Marsoglu M.
CERAMICS INTERNATIONAL, vol.25, no.4, pp.359-366, 1999 (SCI-Expanded)
- LII. **Processing toughness improvement and microstructural analysis of SiC platelet reinforced Al₂O₃ Y TZP nano ceramic matrix composites**
Kaya C., Kaya F., Müzeyyen M.
Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing, vol.247, pp.75-80, 1998 (SCI-Expanded)
- LIII. **Multiple-toughening behaviour in SiC platelet-reinforced TZP/Al₂O₃ ceramic composites**
Kaya C., KAYA F., Marsoglu M.
JOURNAL OF MATERIALS SCIENCE LETTERS, vol.16, no.11, pp.892-896, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **Cosmic radiation shielding property of boron reinforced continuous fiber nanocomposites produced by electrospinning**
Özcan M., Kaya C., Kaya F.
Discover Nano, vol.18, no.1, 2023 (Scopus)
- II. **Elektrokinetik Biriktirme Yöntemiyle Co Ve Ti Alaşımları Üzerine Kaplanan Çok Duvarlı Karbon Nanotüp/Hidroksiapatit Tabakaların Proses Ve Karakterizasyonu**
Üstündağ C. B., Kaya F., Boccaccini A. R., Kaya C.
Afyon Kocatepe Üniversitesi Fen Bilimleri Dergisi, vol.9, pp.9-14, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

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

Avcıoğlu S., Kaya F., Kaya C.

Elsevier Science, Oxford/Amsterdam , Amsterdam, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Effects of Ammonium Hydroxide Addition on Morphological, Crystal Structure and Porosity in Boron Nitride Nanosheets**
Yeltik G., Ersoy S., Özcan M., Kaya C., Kaya F.
7. INTERNATIONAL MEDITERRANEAN CONGRESS, Valencia, Spain, 9 - 11 January 2025, pp.1-2
- II. **DISCOVERING THE POTENTIAL OF B₄C-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
- III. **NON-CATALYTIC SOL-GEL SYNTHESIS OF NANO/MICRO B₄C 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
- IV. **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
- V. **Effect of Starting Composition on the Morphology of Sol-Gel Synthesized Boron Carbide (B₄C) Particles**
Tümkeya S., AVCIOĞLU S., KAYA F., KAYA C.
21st International Metallurgy and Materials Congress, İstanbul, Turkey, 06 October 2022
- VI. **Coupling solvothermal synthesis and pyrolysis processes to produce microporous heteroatom doped carbons from a simple organic molecule for CO₂ capture**
ZAMAN A. C., KAYA C., ÜSTÜNDAĞ C. B., KAYA F.
TURKISH PHYSICAL SOCIETY 38TH INTERNATIONAL PHYSICS CONGRESS, Turkey, 31 August - 04 September 2022
- VII. **Controlled sol-gel synthesis of boron carbide for energy storage applications**
Tümkeya S., AVCIOĞLU S., KAYA F., KAYA C.
International Conference On Emerging Sources In Science, Turkey, 26 May 2022
- 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. **Sol-Gel Synthesis of B₄C-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
- X. **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
- XI. **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

- XII. **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
- XIII. **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
- XIV. **Nano boron carbide (B4C) reinforced polymer matrix composites for shielding and engineering applications: issues and challenges.**
Kaya C., Avcioğlu S., Buldu M., Menciloğlu Y. Z., Üstündağ C. B., Kam E., Kaptan H. Y., Kaya F.
In: 5th International Conference on Traditional and Advanced Ceramics (ICTA2019), Krung-Thep, Thailand, 28 - 30 August 2019, pp.1
- XV. **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
- XVI. **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
- XVII. **Processing of nano boron carbide reinforced flexible polymer composites with improved shielding properties**
Kaya C., Avcioğlu S., Buldu M., Kaya F., Üstündağ C. B., Kam E., Menciloğlu Y. Z.
6th Global Conference on Polymer and Composite Materials (PCM 2019), Trat, Thailand, 8 - 11 July 2019, pp.1
- XVIII. **Processing and properties of new generation radiation shielding nano composites**
Kaya C., Avcioğlu S., Kaya F., Üstündağ C. B., Buldu M., Kam E., Menciloğlu Y. Z.
Collaborative Conference on Materials Research (CCMR2019), Seoul, South Korea, 3 - 07 July 2019, pp.1
- XIX. **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.
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European Commission REA H2020 Marie Curie Individual Fellowship Programme Chemistry, Engineering and Life Sciences Panel, Scientific Consultancy, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey, 2016 - 2017

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Scientific Research / Working Group Memberships

Mühendislik Araştırma Grubu, TÜBİTAK-ARDEB, Türkiye, www.tubitak.gov.tr, 2006 - 2012

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Non Academic Experience

European Commission Research Executive Agency (REA) H2020 People Marie Curie Chemistry Paneli

European Commission H2020 Spreading the Excellence & Widening the Participation Twinning Panel

European Commission Research Executive Agency (REA) Marie Curie IF Panelleri

European Commission Research Executive Agency (REA) FP7 People Marie Curie Chemistry Paneli

European Commission Research Executive Agency (REA) Research for SMEs Paneli

Other Public Institution, Tübitak, Malzeme Bilimi

TÜBİTAK

Queen Mary, University of London, İngiltere

Doğuş Auminyum