

## Prof. Figen KAYA

### Personal Information

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### International Researcher IDs

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

ScopusID: 7003619646

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### 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

## Supervised 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 (TiO<sub>2</sub>) 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., Avcıoğlu 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**  
Avcıoğlu 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 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)
- 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 B<sub>4</sub>C fibers**  
Avcıoğlu S., Kaya F., Kaya C.  
CERAMICS INTERNATIONAL, vol.47, no.19, pp.26651-26667, 2021 (SCI-Expanded)
- XII. **Investigation of photocatalytic properties of TiO<sub>2</sub> 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 (B<sub>4</sub>C) powders synthesized from polymeric precursors**  
Avcıoğlu S., KAYA F., Kaya C.  
CERAMICS INTERNATIONAL, vol.46, no.11, pp.17938-17950, 2020 (SCI-Expanded)
- XVI. **Processing and properties of boron carbide (B<sub>4</sub>C) reinforced LDPE composites for radiation shielding**  
Avcıoğlu S., Buldu M., Kaya F., Üstündağ C. B., KAM E., Menciloğlu 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 (B<sub>4</sub>C) 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-TiO<sub>2</sub> 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 TiO<sub>2</sub>@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-TiO<sub>2</sub> 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 TiO<sub>2</sub> 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 Al<sub>2</sub>O<sub>3</sub>/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 Al<sub>2</sub>O<sub>3</sub> 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/Al<sub>2</sub>O<sub>3</sub> 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

- 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

## Papers Published in Refereed Scientific Meetings

- 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 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
- III. **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
- 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 (B<sub>4</sub>C) 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 CO<sub>2</sub> 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 (B<sub>4</sub>C) 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 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
- 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 B<sub>4</sub>C 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.  
 Collaborative Conference on Materials Research (CCMR 2019), 3 - 07 June 2019
- XX. **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
- XXI. **A novel route to synthesize graphene via electrochemical process and its utilization in organic photovoltaic devices as charge transport layer**  
 Dericiler K., Kaya F.  
 4th International congress on Engineering, Architecture and Design, 2019, İstanbul, Turkey, 23 - 24 April 2019, pp.116-124
- XXII. **Optimization of Sol-Gel Synthesized Preceramic 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
- XXIII. **Synthesis of High Purity Boron Carbide Powders via Sol-Gel Method**  
 Avcioğlu S., KAYA F., Kaya C.  
 19th International Metallurgy and Materials Congress (IMMC 2018), İstanbul, Turkey, 25 October 2018, pp.262
- XXIV. **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
- XXV. **TAILORING THE MORPHOLOGY OF SOL-GEL SYNTHESIZED BORON CARBIDE (B4C) POWDERS BY CONTROLLING THE GEL NETWORK**



KAYA F., Avcıoğlu S., Kaya C.

IV. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'18), Eskişehir, Turkey, 10 October 2018, pp.538

**XXVI. Low Temperature Synthesis and Characterization of High Purity Nano Boron Carbide (B4C) Structures**

Kaya C., Avcıoğlu S., KAYA F.

IV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress, Eskişehir, Turkey, 10 October 2018, pp.35

**XXVII. 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

**XXVIII. 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

**XXIX. 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

**XXX. Processing and Properties of Novel Nano Boron Carbide (B4C) Structures**

KAYA C., AVCIOĞLU S., KAYA F.

International Conference on Advanced Materials Research and Manufacturing Technologies (AMRMT 2018), 11 - 13 August 2018

**XXXI. Novel Boron Carbide (B4C) Structures with Controlled Morphology for Shielding Applications**

KAYA C., AVCIOĞLU S., KAYA F.

2018 Collaborative Conference on Materials Research (CCMR), 25 - 28 June 2018

**XXXII. LOW TEMPERATURE SYNTHESIS OF B4C: INFLUENCE OF CITRIC ACID ADDITION**

AVCIOĞLU S., KAYA F., KAYA C.

IMSMATEC 2018, 10 - 12 April 2018

**XXXIII. Low Temperature Synthesis of B4C: Influence of Citric Acid Addition**

Avcıoğlu S., KAYA F., Kaya C.

The International Conference on Materials Science, Mechanical and Automotive Engineering and Technology (IMSMATEC'18), İzmir, Turkey, 06 April 2018, pp.577

**XXXIV. Synthesis and Characterization of Titanium Dioxide Nanostructures**

ÖZCAN M., NOBERİ C., KAYA C., KAYA F.

International Materials Technologies and Metallurgy Conference 2017, İstanbul, Turkey, 26 - 27 October 2017

**XXXV. Synthesize and Characterization of Aligned TiO2 Nanotubes Onto ITO Glasses**

BAKKALOĞLU Ç., NOBERİ C., KAYA C., KAYA F.

International Materials Technologies and Metallurgy Conference 2017, İstanbul, Turkey, 26 - 27 October 2017

**XXXVI. New Generation Oxide Based Functional Nanotubes Synthesis Challenges and Applications**

KAYA C., KAYA F., NOBERİ C., ZAMAN A. C.

BIT's 7th Annual World Congress of Nano Science and Technology-2017, Fukuoka, Japan, 24 - 26 October 2017

**XXXVII. Synthesis of novel oxide-based nanostructure materials for various applications**

KAYA F., ZAMAN A. C., KAYA C.

ICCE-25, ROME, 16-22 July 2017, Rome, Italy, 16 July 2017, pp.17202-17209

**XXXVIII. Synthesis and applications of various oxide-based nanostructures with controlled morphologies**

KAYA C., ZAMAN A. C., KAYA F.

ICCE-25, 16 - 22 July 2017

**XXXIX. 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

- XL. Bor İle Katkılandırılmış Mikronaltı TiO<sub>2</sub> Sentezi ve Karakterizasyonu**  
BAYKUT B., NOBERİ C., KAYA F., KAYA C.  
V.Ulusal Nanoteknoloji Kongresi, Turkey, 9 - 10 March 2017
- XLI. Conservation of Historical Documents with Silver/Chitosan Nanocomposites**  
KAYA F.  
11th International conference and Expo on Nanoscience and Molecular Nanotechnology; Rome, Roma, Italy, 20 October 2011, pp.13
- XLII. SYNTHESIS AND CHARACTERIZATION OF ZINC OXIDE NANOSTRUCTURES**  
ÖZCAN M., NOBERİ C., KAYA C., KAYA F.  
INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 24 - 28 May 2016
- XLIII. ESR studies of Titania Nanotubes Produced by Hydrothermal Process**  
KAYA F., ZAMAN A. C., KAYA C., KAPTAN H. Y.  
EMN Honk Kong Meeting, 9 - 12 December 2015
- XLIV. NOVEL OXIDE BASED NANOTUBES FOR STORAGE APPLICATIONS**  
KAYA C., ZAMAN A. C., NOBERİ C., KAYA F.  
EMN Meeting, Energy Materials Nanotechnology 2015, 9 - 12 December 2015, vol.1, pp.10
- XLV. ESR STUDIES OF TITANIA NANOTUBES PRODUCED BY HYDROTHERMAL PROCESS**  
KAYA F., KAYA C., ZAMAN A. C., KAPTAN H. Y.  
EMN Meeting, Energy Materials Nanotechnology 2015, 9 - 12 December 2015, vol.1, pp.23
- XLVI. Novel oxide based nanotubes for storage applications**  
KAYA C., ZAMAN A. C., KAYA F., NOBERİ C.  
EMN Hong Kong Meeting 2015, 9 - 12 December 2015
- XLVII. Determination of Antiparasitic Effects of TO<sub>2</sub> @ Ag Nanoparticles Against L. infantum Parasites In Vitro**  
ABAMOR E. Ş., ALLAHVERDİYEV A., BAĞIROVA M., KAYA F., KAYA C.  
19. Ulusal Parazitoloji Kongresi, Erzurum, Turkey, 05 October 2015, pp.12
- XLVIII. Coating of TiO<sub>2</sub> Nanotubes on Transparent ITO Substrates by Electrophoretic Deposition and Their Applications in DSSC Cells**  
Kaya F.  
11th Nanoscience and Nanotechnology Conference (NanoTR-11) Ankara, Turkey, Ankara, Turkey, 22 May 2010, pp.11
- XLIX. Synthesis of Oxide Based Nanotubes and Nanostructures and their Antimicrobial Applications**  
KAYA C., KAYA F., ZAMAN A. C., NOBERİ C.  
Nanobiotechnology Days, 14 - 15 May 2015
- L. Conservation of Historical Documents with Silver Supported Chitosan Nanofibers**  
eren g. ö., NOBERİ C., KAYA C., KAYA F.  
AIC American Institute for Conservation of Historic and Artistic Works, 13 - 16 May 2014, vol.1, pp.1-2
- LI. Synthesis of Oxide Based Nanotubes and Nanostructures and Their Antimicrobial Applications**  
KAYA C., NOBERİ C., KAYA F.  
Nanobiotechnology Days, 01 May 2015
- LII. Fabrication of Porous Hydroxyapatite by Electrophoretic Deposition**  
ÜSTÜNDAĞ C. B., ZAMAN A. C., KAYA F., KAYA C.  
International Porous and Powder Materials Symposium and Exhibition (PPM 2013), 01 September 2013
- LIII. Synthesis of Metallic Copper Nanowires at Low Temperature**  
Noberİ C., Kaya F.  
International Porous and Powder Materials, 01 September 2013
- LIV. Processing, Structure and Properties of Multi Walled Carbon Nanotube reinforced Nano Alumina Ceramics**  
Zaman A. C., KAYA C.  
12th Asia Pacific Physics Conference (APPC12), 01 July 2013
- LV. Hydrothermally Prepared Ceramic-Carbon Nanotube Nanocomposite Structure**

- ÜSTÜNDAĞ C. B., Zaman A. C., Kaya F., Kaya C.  
10th International Conference on Nanosciences & Nanotechnologies (NN13), 01 July 2013
- LVI. **Synthesis, characterization and coating of multiwalled zinc oxide (ZnO) nanotubes**  
KAYA C., Ipeksac T., Noberi C., Kaya F.  
12th Asia Pacific Physics Conference (APPC12), 01 July 2013
- LVII. **Processing, Properties and Characterization of Hydrothermally Synthesized Ag Doped TiO<sub>2</sub> Nanotubes**  
Zaman A. C., Ustundag C. B., Kaya F., KAYA C.  
BioMAT2013, 01 April 2013
- LVIII. **Ag-TiO<sub>2</sub> Nano-Powders by Hydrothermal Synthesis and Their Antimicrobial Properties**  
NOBERİ C., ZAMAN A. C., ÜSTÜNDAĞ C. B., KAYA F., KAYA C., ABAMOR E. Ş., Allahverdiyev A., Bağirova M.  
Nano-TR 7, İSTANBUL, 27 June - 01 July 2011
- LIX. **Synthesis and characterisation of Ag-TiO<sub>2</sub> nano-composite particles for antimicrobial applications**  
NOBERİ C., ZAMAN A. C., ÜSTÜNDAĞ C. B., KAYA F., KAYA C., ABAMOR E. Ş., Allahverdiyev A., Bağirova M.  
Euro Biomat 2011, Almanya, 13 - 14 April 2011
- LX. **Damage Detection in Fibre Reinforced Ceramic and Metal Matrix Composites by Acoustic Emission**  
Kaya F.  
6th China International Conference on High-Performance Ceramics (CICC-6), Harbin, China, 16 - 19 August 2009,  
vol.434-435, pp.57-60
- LXI. **Investigation the effect of silver nanoparticules with Leishmania parasites in visible and UV light**  
ALLAHVERDİYEV A. M., BAGIROVA M., ABAMOR E. Ş., ÇAKIR KOÇ R., Üstündağ C. B., Kaya F., Kaya C.  
16. National Parasitology Congress, Adana, Turkey, 01 December 2008, pp.1
- LXII. **GÜMÜŞ NANOPARTİKÜLLERİNİ İÇEREN KAPLAMALARIN GÖRÜNÜR VE UV IŞIK ALTINDA ANTİLEİSHMANİAL ETKİSİNİN İN VİTRO İNCELENMESİ**  
ALLAHVERDİYEV A., BAĞIROVA M., ABAMOR E. Ş., ÇAKIR KOÇ R., ÜSTÜNDAĞ C. B., KAYA F., KAYA C.  
16. ULUSAL PARAZİTOLOJİ KONGRESİ, Turkey, 1 - 07 November 2009
- LXIII. **The Antiparasitic Anti Leishmanial Effect of Titanium Nanoparticles In Vitro**  
ALLAHVERDİYEV A., BAGIROVA M., ABAMOR E. Ş., ÇAKIR KOÇ R., ÜSTÜNDAĞ C. B., KAYA F., KAYA C.  
BIOMED 2009 15TH INTERNATIONAL BIOMEDICAL SCIENCE AND TECHNOLOGY SYMPOSIUM, 16 - 19 August 2009
- LXIV. **THE EFFECT OF TITANIUM NANOPARTICLES ON HUMAN BREAST CANCER CELLS MCF 7 IN VITRO**  
BAGIROVA M., ALLAHVERDİYEV A., ÇAKIR KOÇ R., ABAMOR E. Ş., ÜSTÜNDAĞ C. B., KAYA F., KAYA C.  
BIOMED 2009 15TH INTERNATIONAL BIOMEDICAL SCIENCE AND TECHNOLOGY SYMPOSIUM, 16 - 19 August 2009
- LXV. **The Anti-Parasitic Effect of Titanium Nanoparticles in vitro**  
ALLAHVERDİYEV A., BAĞIROVA M., ABAMOR E. Ş., ÇAKIR KOÇ R., ÜSTÜNDAĞ C. B., Kaya F., Kaya C.  
15TH INTERNATIONAL BIOMEDICAL SCIENCE AND TECHNOLOGY SYMPOSIUM, Ankara, Turkey, 10 May 2009,  
pp.127
- LXVI. **Carbon Nanotube-Reinforced Hydroxyapatite Coatings on Metallic Implants Using Electrophoretic Deposition**  
KAYA C., Kaya F., Cho J., Roether J. A., Boccaccini A. R.  
3rd International Conference on Electrophoretic Deposition: Fundamentals and Applications, Awaji, Japan, 5 - 09  
October 2008, vol.412, pp.93-94
- LXVII. **Multi-walled carbon nanotube-reinforced nano-structured bioactive ceramic coatings on metal-based implants using electrophoretic deposition (EPD)**  
Kaya C., Kaya F., ÜSTÜNDAĞ C. B., Singh I., Boccaccini A.  
2nd International Congress on Ceramics, ICC 2008, Verona, Italy, 29 June - 04 July 2008
- LXVIII. **Processing and characterization of ultra-high temperature oxide fiber-reinforced oxide ceramic matrix composites with improved thermomechanical properties**  
KAYA C., Kaya F.  
5th China International Conference on High-Performance Ceramics (CICC-5), Changsha, China, 10 - 13 May 2007,

## Supported Projects

- Avciođlu S., Ersoy S., Kim B. C., Zaman A. C., Kaya F., Gller G., Kaya C., Project Supported by Higher Education Institutions, FBA-2024-6093-Yerli Kaynaklar kullanılarak Otomotiv ve Savunma Sektrleri İin Yeni Nesil Elektrikli Aralarda Sperkapasitr Uygulamaları İin Bor Nitrr BN ve Karbr B4C Esashı Elektrot Malzemelerinin  Boyutlu Yazıcılarla 3D Geliştirilmesi, 2024 - 2025
- Kaya C., Kaya F., Kara A., TUBITAK Project, • Yzeyi H-Bn Nano Plakalar Ile Dekore Edilmiş B4c Tozların Sol-Jel Yntemi Ile Sentezi Ve Bunların Nano-Mikro B4c Fiberlerle Takviye Edilmiş Ve Edilmemiş Kompozit Plakaların Spark Plazma Sinterleme Yntemiyle retimi Ve Karakterizasyonu., 2022 - 2025
- KAYA C., KİM B. C., KAYA F., GLLER G., AVCIOđLU S., AVCIOđLU S., Project Supported by Higher Education Institutions, Elektrikli Aralarda Sperkapasitr Uygulamaları İin Yeni Nesil Nano Bor Karbr (B4C) Esashı Elektrot Malzemelerinin Geliştirilmesi, 2023 - 2024
- KAYA F., zgneş M., Project Supported by Higher Education Institutions, Elektroēirme Yntemi ile Biyoyumlu Yara rtsnn retimi ve Karakterizasyonu, 2023 - 2024
- Avciođlu S., Ersoy S., Kaya F., Kaya C., Project Supported by Other Private Institutions, Fiber destekli seramik matriks kompozit malzeme geliştirilmesi-NTCH0001, 2023 - 2024
- Kaya C., Kaya F., Erdem E., Avciođlu S., TUBITAK Project, Katalitik Olmayan Sol-Jel Yntemiyle Bor Karbr (B4C) Nano-Fiberlerin retimi, Karakterizasyonu Ve Uygulamaları, 2021 - 2024
- KAYA F., YELTİK G., Project Supported by Higher Education Institutions, Depolamada Kullanılan Gzenekli Bor Yapıların retilmesi ve Karakterizasyonu, 2020 - 2023
- KAYA F., zcan M., Project Supported by Higher Education Institutions, Kalkanlama malzemesi olarak kullanılabilir bor karbr takviyeli hafif ve esnek polimer nanokompozitlerin geliştirilmesi ve karakterizasyonu, 2019 - 2022
- KAYA F., Project Supported by Higher Education Institutions, Sol-Jel Yntemi İle Polimerik nclerden Nkleer Kalite Bor Karbr Tozların Dşk Sıcaklıkta retimi Ve Radyasyon Kalkanı Olarak Polimer Nanokompozitlerde Kullanımı, 2017 - 2021
- Kaya F., TUBITAK Project, Nkleer Tıp Tesislerinde Yapısal ve Kişisel Radyasyon Kalkanlama Malzemesi olarak Kullanılabilir B4C Takviyeli Hafif ve Esnek Polimer Nanokompozitlerin Geliştirilmesi, 2017 - 2021
- KAYA F., Dericiler K., Project Supported by Higher Education Institutions, Alternatif Yntemlerle Grafen Sentezi ve Uygulamaları, 2018 - 2019
- KAYA F., Project Supported by Higher Education Institutions, eşitli Nano Yapıların Sentezi ve Karakterizasyonu, 2015 - 2015
- KAYA F., Project Supported by Higher Education Institutions, Transparan Altıklar zerine Nanoyapıların Ynlenmiş Olarak Kaplanması ve zelliklerinin Belirlenmesi, 2015 - 2015
- KAYA F., TUBITAK Project, Toplumsal Salgınlarla Karşı Antimikrobiyal Nanoyapılı Modler maskelerin retimi, 2013 - 2015
- KAYA F., STNDAć C. B., Project Supported by Higher Education Institutions, Fotovoltaik Uygulamalar İin Oksit Esashı Nanoparacık ve Nanotplerin Hidrotermal Yntemlerle retilmesi ve Karakterizasyonu, 2012 - 2014
- Allahverdiyev A., Kaya F., stndać C. B., Kuşkonmaz N., Kaya C., TUBITAK Project, Nano-Yapılı Antimikrobiyal Kaplamaların  Boyutlu Metalik Filtreler zerine Elektrokinetik Biriktirme Yntemi Kullanılarak Eldesi ve Karakterizasyon, 2009 - 2012
- Kuşkonmaz N., Kaya F., Kaya C., stndać C. B., TUBITAK Project, Yzeyi fonksiyonlaştırılmış Karbon Nanotplerle Takviyeli Almina ve Hidroksiapatit esashı Nano yapıları Seramiklerin retim ve Karakterizasyonu, 2009 - 2012
- KAYA F., CB Strateji ve Bte Bařkanlıćı (Kalkınma Bakanlıćı) Projesi, Zonguldak Karaelmas niversitesi Merkez Laboratuvarı, 2008 - 2011
- KAYA F., Project Supported by Higher Education Institutions, Rzgar Trbinlerinin retilmesi, 2008 - 2010
- KAYA F., Other International Funding Programs, Mechanical Testing of Composites, 2002 - 2004
- KAYA F., Other International Funding Programs, Processing and Mechanical Characterisation of Composite Materials, 2000 - 2002

## Patent

Kaya F., TOPLUMSAL SALGINLARA KARŞI MODÜLER ANTİMİKROBİYAL VE ANTİVİRAL BİR YÜZ MASKESİ VE BAMBU KATMANI ÜRETİM METODU, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: WO2016099417A1 , Standard Registration, 2022

Kaya F., Kaya C., Avcioglu S., NON-CATALYTIC SOL-GEL METHOD FOR PRODUCTION OF BORON CARBIDE NANOFIBERS , Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: PCT/EP2020/088063 , Standard Registration, 2020

Kaya C., Kaya F., Low Temperature Method for Boron Carbide Production, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 10-2574046 , Standard Registration, 2019, 2023

Kaya C., Kaya F., Noberi C., Bakkaloğlu Ç., A Method for the Production and Coating of Oriented TIO<sub>2</sub> Nanotubes. , Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: WO2017138901A1 , Standard Registration, 2017

KAYA F., UV Destekli Antimikrobiyal alfa demiroksit kaplı çok katmanlı havalandırma filtresi, Patent, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2015

KAYA F., Antibakteriyel Cu(II) Oksit (CuO) Nanotüp Üretimi ve Kaplaması için bir Yöntem, Patent, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2015

KAYA F., NanoStar, Trademark, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2014

Kaya C., Kaya F., İpeksaç T., A Method for the Production and Coating of Antibacterial Copper (II) Oxide (CuO) Nanotube, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: EP2791059A1. , Standard Registration, 2014

## Activities in Scientific Journals

Colloid and Surface Science, Editor, 2017 - Continues

Sigma Journal of Engineering and Natural Sciences , Committee Member, 2017 - Continues

## Peer Reviews in Scientific Publications

Materials Chemistry and Physics , SCI Journal, September 2017

Journal of Industrial Textiles, SCI Journal, July 2017

Materials Chemistry and Physics , SCI Journal, May 2017

Nanokon14, III.Ulusal Nanoteknoloji Kongresi, National Scientific Refreed Journal, September 2014

Materials Chemistry and Physics, Fabrication of L-dopa sensor using Fe doped hydroxyapatite-multiwalled carbon nanotubes (Fe-HA/MWCNT) composite, SCI Journal, November 2013

Surface and Coatings Technology, SCI Journal, October 2011

Materials Chemistry and Physics, SCI Journal, January 2011

Materials Science and Engineering B, SCI Journal, January 2009

International Journal of Applied Ceramics, SCI Journal, January 2009

Journal of Hazardous Materials, SCI Journal, January 2004

Composites Part A (SCI), SCI Journal, January 2004

Journal of Materials Science, SCI Journal, January 2004

Materials Science and Engineering A, SCI Journal, January 2004

## Scientific Project Refereeing

TUBITAK Project, May 2017

TUBITAK Project, May 2017

TUBITAK Project, January 2017

October 2016

January 2015

November 2012

## Scientific Consultations

European Commission REA H2020 Spreading the Excellence and Widening the Participation Twinning Panel, Scientific Consultancy, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey, 2019 - Continues

Yıldız Teknopark Smaı Mülkiyet Deęerlendirme Kurulu, Scientific Consultancy, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey, 2018 - Continues

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

European Commission REA H2020 Marie Curie Individual Fellowship Programme Chemistry Panels, Scientific Consultancy, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey, 2015 - 2017

Yıldız Teknopark Teknoloji Transfer Ofisi Fikri ve Mülkiyet Grubu, Scientific Consultancy, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey, 2016 - 2016

European Commission REA FP7 SME-Chemistry Panels, Scientific Consultancy, Bülent Ecevit Üniversitesi, Mühendislik, Metalurji Mühendislięi, Turkey, 2011 - 2014

Tübitak Ardeb Mühendislik Araştırma Grubu Danışma Kurulu Üyesi, Scientific Consultancy, Bülent Ecevit Üniversitesi, Mühendislik, Metalurji Mühendislięi, Turkey, 2006 - 2012

## Scientific Research / Working Group Memberships

Mühendislik Araştırma Grubu, TÜBİTAK-ARDEB, Türkiye, [www.tubitak.gov.tr](http://www.tubitak.gov.tr), 2006 - 2012

## Metrics

Publication: 127

Citation (WoS): 1015

Citation (Scopus): 1341

H-Index (WoS): 17

H-Index (Scopus): 19

## Non Academic Experience

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

European Commission H2020 Spreading the Excellence & Widening the Participation Twinning Panel, Panelist  
European Commission Research Executive Agency (REA) Marie Curie IF Panelleri, Marie Curie Individual Fellowship Programı Mühendislik, Kimya ve Yaşam Bilimleri Panelleri hakem ve rapörtörü

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

European Commission Research Executive Agency (REA) Research for SMEs Paneli, Panel Hakemi ve Raportörü  
Other Public Institution, Tübitak, Malzeme Bilimi  
TÜBİTAK, Ardeb, Malzeme Araştırma Grubu Danışma Kurulu Üyesi  
Queen Mary, University of London, İngiltere, Dr.Araştırma Görevlisi  
Doğuş Auminyum, Dökümhane Şefi