

## Prof. Cengiz KAYA

### Personal Information

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### International Researcher IDs

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### Education

Post Doctorate, The University of Birmingham, Metallurgy and Materials, IRC in High Performance Materials, United Kingdom 1999 - 2003

Doctorate, The University of Birmingham, School Of Engineering, Metalurji Ve Malzeme Müh.Böl., United Kingdom 1995 - 2000

Postgraduate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 1988 - 1992

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 1984 - 1988

### Research Areas

Material science and engineering

### Academic Positions

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2020 - Continues

Professor, Sabanci University, Nanotechnology Application And Research Center, 2016 - 2020

Other, Sabanci University, Faculty Of Engineering, ALP, 2016 - 2020

Professor, Sabanci University, Faculty Of Engineering And Natural Sciences, , 2016 - 2020

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2012 - 2016

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2006 - 2012

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2004 - 2006

Assistant Professor, Brunel University, Wolfson Centre for Materials Processing and Mechanical Engineering, 2003 - 2004

Lecturer PhD, The University of Birmingham, IRC, Interdisciplinary Research Centre for High Performance Materials, IRC, Interdisciplinary Research Centre for High Performance Materials, 1999 - 2003

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of

## Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2020 - Continues

Member of IT Commission, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2020 - Continues

YK Üyesi, Sabancı University, Nanotechnology Application And Research Center, 2016 - 2020

Coordinator of The Rectorate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2013 - 2016

Rector's Advisor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2012 - 2016

Rectorate Commissioner, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2010 - 2016

Rektörlük Stratejik Plan Komisyonu Üyesi, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2010 - 2012

Erasmus Coordinator, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2004 - 2008

Deputy Head of Department, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2005 - 2006

## Courses

### Undergraduate

Graduation Project, Undergraduate, 2021 - 2022

Principles of Design, Undergraduate, 2020 - 2021

Tasarım esasları, Undergraduate, 2020 - 2021

Bitirme çalışması, Undergraduate, 2020 - 2021

## Supervised Theses

KAYA C., Karbon nanotüp ilavesinin alümina esashı seramiklerin yapı ve özelliklerine etkisi, Postgraduate, A.Can(Student), 2016

Kaya C., Farklı Uygulama Alanları İçin Nano Boyutta Bor Esası Malzemelerin Sentez ve Karakterizasyonu, Doctorate, C.Noberi(Student), 2016

Kaya C., QUANTITATIVE ANALYSIS OF CARBON NANOTUBE SUSPENSIONS, SYNTHESIS OF INORGANIC NANOSTRUCTURED MATERIALS AND THEIR CHARACTERIZATION, Doctorate, A.Can(Student), 2016

KAYA C., Çeşitli metal oksit nanotüpelerin sentezi ve uygulamalar, Postgraduate, T.İpekşac(Student), 2016

KAYA C., Gümüş-titanyum dioksit (Ag-TiO<sub>2</sub>) antimikrobiyal nano kompozit tozların üç boyutlu metalik filtreler üzerine elektrokinetik biriktirme (EKB) yöntemiyle kaplanması, Postgraduate, C.Noberi(Student), 2016

Kaya C., Karbon nanotüp takviyeli biyoaktif seramik tozlarının sentezi, karakterizasyonu ve Ti-6Al-4V合金 üzerine kaplanması, Doctorate, C.Bülent(Student), 2016

## Research Infrastructure Information

Kaya C., Sabancı Üniversitesi Nanoteknoloji Uygulama ve Araştırma Merkezi, May 2017

Kaya C., Kaya F., Zaman A. C., Üstündağ C. B., Kuşkonmaz N., Nöberi C., Nanoteknoloji laboratuvarı, September 2008

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **Unveiling the Electrocatalytic Activity of Bifunctional Iron-Niobium Double Perovskites for Overall Water Splitting: A-Site Cation Influence**  
Avcioğlu 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. **Enhancing ZnO-based supercapacitors through carbon-induced defect centers**  
Ercay E.,ERSOY S., ÖZCAN M., Misirlioglu F. B., Gungor A., Ozarowski A., KAYA F., Rostas A. M., KAYA C., Erdem E.  
MRS Bulletin, 2025 (SCI-Expanded)
- III. **Fabrication of Gold Nanoflower-Coated Photosensitive Meta-Structures Using P $\mu$ SL 3D Printing for Hyperthermia Applications**  
Ersoy S., Yıldız E., Ren Z., Zhang M., Zhang H., Karaz S., Han M., Shiva A., Yunusa M., KAYA C., et al.  
ACS Applied Polymer Materials, vol.6, no.17, pp.10807-10823, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Unveiling a cutting-edge bi-ligand nickel metal-organic framework as an electrode material for symmetric supercapacitors**  
Kale A. M., Biradar M. R., Cho W., KAYA C., Bhosale S. V., Bhosale S. V., Kim B. C.  
Journal of Energy Storage, vol.73, 2023 (SCI-Expanded)
- VII. **Structural reconstruction of N/S-assisted carbon polyhedral matrix endowed with bimetallic phosphide heterostructures for energy storage**  
Thondaiman P., Raj C. J., Manikandan R., Cristobal V., KAYA C., Kim B. C.  
Sustainable Materials and Technologies, vol.38, 2023 (SCI-Expanded)
- VIII. **Surface-oriented heterostructure of iron metal organic framework confined molybdenum disulfides as an efficient bifunctional electrocatalyst for overall water splitting**  
Velayutham R., Raj C., Jang H., Cho W., Palanisamy K., KAYA C., Kim B.  
Materials Today Nano, vol.24, 2023 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **Boron carbide reinforced electrospun nanocomposite fiber mats for radiation shielding**  
Özcan M., Avcioğlu S., Kaya C., Kaya F.  
Polymer Composites, vol.44, no.7, pp.4155-4167, 2023 (SCI-Expanded)
- XII. **Boron Carbide as an Electrode Material: Tailoring Particle Morphology to Control Capacitive Behaviour**  
Avcioğlu S., Buldu Aktürk M., Erdem E., Kaya F., Kaya C.  
MATERIALS, vol.16, pp.1-14, 2023 (SCI-Expanded)
- XIII. **Two-Dimensional Synergistic Interfacial Orientation on Tin Oxide-Reinforced Cobalt Carbonate Hydroxide Heterostructures for High-Performance Energy Storage**  
Pugalenthiyar T., Raj C. J., Manikandan R., Antonysamy D. S., Puigdollers J., KAYA C., Kim B. C.

- ACS Applied Materials and Interfaces, 2023 (SCI-Expanded)
- XIV. **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)
- XV. **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)
- XVI. **Morphological evolution of boron carbide particles: Sol-gel synthesis of nano/micro B<sub>4</sub>C fibers**  
Avcioğlu S., Kaya F., Kaya C.  
CERAMICS INTERNATIONAL, vol.47, no.19, pp.26651-26667, 2021 (SCI-Expanded)
- XVII. **Electrodeposition of vanadium pentoxide on carbon fiber cloth as a binder-free electrode for high-performance asymmetric supercapacitor**  
Kaya C., Velayutham R., Manikandan R., Raj C. J., Kale A. M., Palanisamy K., Kim B. C.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.863, no.158332, pp.1-14, 2021 (SCI-Expanded)
- XVIII. **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)
- XIX. **Effect of elemental nano boron on the transformation and morphology of boron carbide (B<sub>4</sub>C) powders synthesized from polymeric precursors**  
Avcioglu S., KAYA F., Kaya C.  
CERAMICS INTERNATIONAL, vol.46, no.11, pp.17938-17950, 2020 (SCI-Expanded)
- XX. **Processing and properties of boron carbide (B<sub>4</sub>C) reinforced LDPE composites for radiation shielding**  
Avcioğlu S., Buldu M., Kaya F., Üstündağ C. B., KAM E., Menceloglu Y. Z., Kaptan H. Y., Kaya C.  
CERAMICS INTERNATIONAL, vol.46, no.1, pp.343-352, 2020 (SCI-Expanded)
- XXI. **Non-catalytic synthesis of boron carbide (B<sub>4</sub>C) nano structures with various morphologies by sol-gel process**  
avcioğlu S., KAYA F., Kaya C.  
MATERIALS LETTERS, vol.249, pp.201-205, 2019 (SCI-Expanded)
- XXII. **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)
- XXIII. **Determination of of Quantity of Materials in Suspensions and in Electrophoretic Coatings by UV-Visible Absorption Spectroscopy**  
Zaman A. C., Kaya C.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, no.11, 2015 (SCI-Expanded)
- XXIV. **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)
- XXV. **Investigation of antileishmanial activities of TiO(2)@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)
- XXVI. **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)

- XXVII. **Hydrothermally Mixed Hydroxyapatite-Multiwall Carbon Nanotubes Composite Coatings on Biomedical Alloys by Electrophoretic Deposition**  
Üstündag C. B., Avciata O., Kaya F., Kaya C.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.117, pp.1571-1576, 2013 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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., Rafailovich M.  
INTERNATIONAL JOURNAL OF NANOMEDICINE, vol.6, pp.2705-2714, 2011 (SCI-Expanded)
- XXXIII. **Current Status of Oxide Fibre-Reinforced Oxide Ceramic Matrix Composites for Gas Turbine Applications**  
KAYA C.  
Key Engineering Materials, vol.434, no.435, pp.1-4, 2010 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **Boehmite derived surface functionalized carbon nanotube-reinforced macroporous alumina ceramics**  
Zaman A. C., Üstündağ C. B., Kaya C.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.30, pp.2525-2531, 2010 (SCI-Expanded)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **Unidirectional all-oxide mini-composites with crack-deflecting NdPO<sub>4</sub> interface**  
KAYA C., Butler E. G.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.29, no.3, pp.363-367, 2009 (SCI-Expanded)
- XLII. **Unidirectional all-oxide mini composites with carck deflecting NdPO<sub>4</sub> interface**  
KAYA C., Butler E.  
Journal of the European Ceramic Society, vol.29, no.3, pp.363-367, 2009 (SCI-Expanded)
- XLIII. **Electrophoretic deposition of carbon nanotube-reinforced hydroxyapatite bioactive layers on Ti-6Al-4V alloys for biomedical applications**  
KAYA C.  
CERAMICS INTERNATIONAL, vol.34, no.8, pp.1843-1847, 2008 (SCI-Expanded)
- XLIV. **Processing and characterization of ultra-high temperature oxide fiber-reinforced oxide ceramic matrix composites with improved thermomechanical properties**  
KAYA C.  
Key engineering materials, vol.368, pp.1778-1781, 2008 (SCI-Expanded)
- XLV. **Multi-walled carbon nanotube-reinforced hydroxyapatite layers on Ti6Al4V medical implants by electrophoretic deposition (EPD),**  
KAYA C., Singh I., Boccaccini A. R.  
Advanced Engineering Materials, vol.10, no.1, pp.1-8, 2008 (SCI-Expanded)
- XLVI. **Multi-walled carbon nanotube-reinforced hydroxyapatite layers on Ti6Al4V medical implants by electrophoretic deposition (EPD)**  
KAYA C., Singh I., Boccaccini A. R.  
ADVANCED ENGINEERING MATERIALS, vol.10, pp.131-138, 2008 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **Nano-bio-layers on Ti6Al4V alloys using electrophoretic deposition (EPD) for orthopaedic applications**  
KAYA C.  
Materialpruefung/Materials Testing, vol.49, pp.337-341, 2007 (SCI-Expanded)
- XLIX. **Nano-bio-layers on Ti6Al4V alloys using electrophoretic deposition (EPD) for orthopaedic applications**  
KAYA C.  
MATERIALPRUFUNG, vol.49, no.6, pp.337-341, 2007 (SCI-Expanded)
- L. **Bioactive ceramic coatings containing carbon nanotubes on metallic substrates by electrophoretic deposition**  
Singh I., KAYA C., Shaffer M. S. P., Thomas B., Boccaccini A. R.  
JOURNAL OF MATERIALS SCIENCE, vol.41, no.24, pp.8144-8151, 2006 (SCI-Expanded)
- LI. **Extrusion of alumina ceramic tubes with controlled bends**  
KAYA C., Blackburn S.  
JOURNAL OF MATERIALS SCIENCE, vol.40, no.8, pp.2007-2011, 2005 (SCI-Expanded)
- LII. **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)
- LIII. **Fracture behaviour of mullite fibre reinforced-mullite matrix composites under quasi-static and ballistic impact loading**  
Boccaccini A., Atiq S., Boccaccini D., Dlouhy I., KAYA C.  
COMPOSITES SCIENCE AND TECHNOLOGY, vol.65, no.2, pp.325-333, 2005 (SCI-Expanded)
- LIV. **Extrusion of ceramic tubes with complex structures of non-uniform curvatures made from nano-**

**powders**

KAYA C., Blackburn S.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.24, no.14, pp.3663-3670, 2004 (SCI-Expanded)

- LV. **TiO<sub>2</sub> coatings on silicon carbide and carbon fibre substrates by electrophoretic deposition**

Boccaccini A., KARAPAPPAS P., MARIJUAN J., KAYA C.

JOURNAL OF MATERIALS SCIENCE, vol.39, no.3, pp.851-859, 2004 (SCI-Expanded)

- LVI. **Processing and structures of bi-phase oxide ceramic filaments**

Poulon-Quintin A., Berger M., Bunsell A., KAYA C., Butler E., Wootton A., Lewis M.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.24, no.1, pp.101-110, 2004 (SCI-Expanded)

- LVII. **Al<sub>2</sub>O<sub>3</sub>-Y-TZP/Al<sub>2</sub>O<sub>3</sub> functionally graded composites of tubular shape from nano-sols using double-step electrophoretic deposition**

KAYA C.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.23, no.10, pp.1655-1660, 2003 (SCI-Expanded)

- LVIII. **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)

- LIX. **Co-extrusion of Al<sub>2</sub>O<sub>3</sub>/ZrO<sub>2</sub> bi-phase high temperature ceramics with fine scale aligned microstructures**

KAYA C., Butler E., Lewis M.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.23, no.6, pp.935-942, 2003 (SCI-Expanded)

- LX. **Near net-shape manufacturing of alumina/zirconia high temperature ceramics with fine scale aligned multiphase microstructures using co-extrusion**

Kaya C., Butler E.

JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.135, pp.137-143, 2003 (SCI-Expanded)

- LXI. **Microfabrication of Al<sub>2</sub>O<sub>3</sub>/ZrO<sub>2</sub> bi-phase ceramics with continuous fibrillar microstructure by co-extrusion**

KAYA C., Butler E., Lewis M.

JOURNAL OF MATERIALS SCIENCE LETTERS, vol.22, no.5, pp.357-361, 2003 (SCI-Expanded)

- LXII. **Zirconia-toughened alumina ceramics of helical spring shape with improved properties from extruded sol-derived pastes**

KAYA C., Butler E.

SCRIPTA MATERIALIA, vol.48, no.4, pp.359-364, 2003 (SCI-Expanded)

- LXIII. **Microstructurally controlled mullite ceramics produced from monophasic and diphasic sol-derived pastes using extrusion**

KAYA C., Butler E., Lewis M.

JOURNAL OF MATERIALS SCIENCE, vol.38, no.4, pp.767-777, 2003 (SCI-Expanded)

- LXIV. **Mullite (Nextel (TM) 720) fibre-reinforced mullite matrix composites exhibiting favourable thermomechanical properties**

Kaya C., Butler E., Selcuk A., Boccaccini A., Lewis M.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.22, no.13, pp.2333-2342, 2002 (SCI-Expanded)

- LXV. **Microstructural variations in mullite ceramics derived from diphasic sols using different forming techniques**

KAYA C., Boccaccini A. R.

JOURNAL OF MATERIALS RESEARCH, vol.17, no.12, pp.3000-3003, 2002 (SCI-Expanded)

- LXVI. **Plastic forming and microstructural development of alpha-alumina ceramics from highly compacted green bodies using extrusion**

Kaya C., Butler E.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.22, no.12, pp.1917-1926, 2002 (SCI-Expanded)

- LXVII. **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)
- LXVIII. **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)
- LXIX. **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)
- LXX. **Nanostructured ceramic powders by hydrothermal synthesis and their applications**
- KAYA C., He J., Gu X., Butler E.
- MICROPOROUS AND MESOPOROUS MATERIALS, vol.54, pp.37-49, 2002 (SCI-Expanded)
- LXXI. **Plastic forming and microstructural development of alfa alumina ceramics from highly compacted green bodies using extrusion**
- KAYA C., Butler E.
- JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.22, no.12, pp.1917-1926, 2002 (SCI-Expanded)
- LXXII. **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)
- LXXIII. **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)
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## Activities in Scientific Journals

Journal Of The European Ceramic Society, Evaluation Committee Member, 1997 - Continues

## Memberships and Roles in Scientific Organizations

Türk Seramik Derneği, Member, 1992 - Continues, Turkey

Metalurji Mühendisleri Odası, Member, 1988 - Continues, Turkey

London Materials Society, Executive Board Member, 2002 - 2006, United Kingdom

## Metrics

Publication: 163

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## Non Academic Experience

Other Public Institution, Teknopark İstanbul, Kuluçka Merkezi, Değerlendirme Komisyon Üyesi

Other Public Institution, Teknopark İstanbul, Teknopark İstanbul, Bilim Kurulu Üyesi

Yıldız Teknik Üniversitesi, Prof.Dr

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Nanoteknoloji Uygulama ve Araştırma Merkezi, YK Üyesi

Other Public Institution, Sabancı Üniversitesi SUNUM, Sabancı Üniversitesi SUNUM, İcra Kurulu Üyesi

Professional Association, Ar-Ge merkezleri iletişim ve işbirliği platformu (ARGEMİP), Ar-Ge merkezleri iletişim ve işbirliği platformu (ARGEMİP), YK Üyesi

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