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1. **Name & Surname:** Bekir Karasu
2. **Date of Birth:** 04 September 1965
3. **Title:** Prof. Dr.
4. **Education:**

Degree	Field	University	Year
BSc	Metallurgical Eng.	Istanbul Technical University	1986
MSc	Ceramic Eng.	Sheffield University, England	1990
PhD	Ceramic Eng.	Sheffield University, England	1994

5. Academic Promotions

Assistant Prof. Dr	Ceramic Eng. Dept.	Anadolu Univ.	1995-2001
Associate Prof. Dr.	Ceramic Eng. Dept.	Anadolu Univ.	2001-2006
Prof. Dr.	Mater. Sci. and Eng. Dept.	Anadolu Univ.	2007-.....

6. Supervised MSc and PhD Theses

6.1 MSc Theses

Investigation on the Usage Capacity of Limonite as A Colorant Agent in Wall Tile Opaque and Satin Glazes, 2001.

Utilization of Sodium Feldspar Wastes in Zinc Based Soft Porcelain Crystalline Glazes, 2001.

Improving Chemical Durability of the SrO-MgO-ZrO₂-SiO₂ System Glasses, 2001.

The Effects of Aydın Çine Region's Albite Flotation and Triage Wastes on the Properties of Ceramic Bodies, 2002.

Use of Phosphorescence Pigments in Several Ceramic Glazes, 2002.

Use of Tunçbilek Thermal Plant Fly Ashes in Stoneware Body and Glazes, 2003.

Use of the Pigments Based on the Seydişehir Alüminyum Factory Wastes in Ceramic Industry, 2003.

Utilisation of Etibor Kırka Borax Wastes in Wall Tile Glazes, 2003.

Development of Scratch Resistant Fritted Floor Tile Glazes in the ZrO_2 -CaO-MgO-SiO₂ (ZrCMS) System, 2005.

Development of Glaze Compositions for Recovering Faulty Surfaces of Vitrified Products, 2007.

The Production and Characterization of Inorganic Based White Phosphorescence Pigments, 2014.

6.2 PhD Theses

The Production and Characterisation of Dental Porcelain without A Metal Support, 2008.

The Production of Opaque Frits without Zircon Content and the Development of Fast Firing Wall Tile Glazes, 2008.

Production of Inorganic Based Phosphorescent Pigments and Their Uses in Industrial Glass and Glaze Systems, 2011.

7. Publications

7.1 Publications in Refereed International Journals

- 1) Karasu, B., "Melting Behaviour of Glasses in the SrO-MgO-ZrO₂-SiO₂ System", *Glass Technology*, **40** (3), 92-96, (1999).
- 2) Karasu, B., Çakı, M. and Turan, S., "The Development and Characterisation of Zinc Crystal Glazes Used for Amakusa-like Soft Porcelains", *J. Euro. Ceram. Soc.*, **20**, [12], 2225-31, (2000).
- 3) Karasu, B., Cable, M., "The Chemical Durability of SrO-MgO-ZrO₂-SiO₂ Glasses in Strongly Alkaline Environments", *J. Euro. Ceram. Soc.*, **20**, [14-15], 2499-2508, (2000).
- 4) Çakı, M., Karasu, B., "Use of Albite Wastes in Stoneware Glazes", *ACerS Bull.*, **79**, [10], 79-82, (2000).
- 5) Karasu, B., Dölekçekiç, E. and Özdemir, B., "Compositional Modifications to Floor Tile Glazes Opacified with Zircon", *British Ceram. Trans.*, **100**, [2], 81-85, (2001).
- 6) Karasu, B., Çakı, M. and Yeşilbaş, Y. G., "The Effect of Albite Wastes on Glaze Properties and Microstructure of Soft Porcelain Zinc Crystal Glazes", *J. Euro. Ceram. Soc.*, **21**, [8], 1131-38, (2001).
- 7) Karasu, B., Turan, S., "Effect of Cobalt Oxide and Copper Oxide Additions to Zinc-Containing Soft Porcelain Glazes", *ACerS Bull.*, **80**, [9], 41-45, (2001).
- 8) Turan, S., Karasu, B., "The Effect of Copper Oxide Addition and the Heat Treatment Temperature on the Microstructure of Zinc Containing Soft Porcelain Crystal Glazes", *Inst. Phys. Conf. Ser.*, Vol. **168**, 315-318, (2001).
- 9) Karasu, B., Arslan, G., Günkaya, G. and Turan, S., "Chemical Durability Behaviour of Bulk Glasses in the SrO-Mn₂O₃-Fe₂O₃-MgO-ZrO₂-SiO₂ (SMFMZS) System", *Key Eng. Mater.*, Vols. 206-213, 2105-2108, (2002).
- 10) Karasu, B., "Crystallisation in the SrO-MgO-ZrO₂-SiO₂ (SMZS) System Glasses", *J. Mater. Sci.*, **37** (2), 271-285, (2002).

- 11) Karasu, B., Turan, S., “Effects of Cobalt, Copper, Manganese and Titanium Oxide Additions on the Microstructures of Zinc Containing Soft Porcelain Glazes”, *J. Euro. Ceram. Soc.*, **22** (9-10), 1447-1455, (2002).
- 12) Karasu, B., Arslan, G. and Kaya, G., “Chemical Durability of SrO-Mn₂O₃-Fe₂O₃-MgO-ZrO₂-SiO₂ (SMFMZS) System Frits against Alkali Attack”, *Glass Technol.*, **43C**, 104-106, (2002).
- 13) Karasu, B., Tosuner, L., “The Micro-structural Studies in Limonite Containing Satin and Opaque Wall Tile Glaze”, *Ceram. Int. Forum*, DKG, **80**, No: 9, E61-65, (2003).
- 14) Karasu, B., Kaya, G., Kozulu, R., “Utilisation of Concentrator Wastes of Etibor Kirka Borax Company in the Recipe of An Opaque Frit Used for Wall Tile Glazes as An Acid Boric Replacement”, *Key Eng. Mater.*, Vols. 264-68, 2505-08, (2004).
- 15) Karasu, B., Kaya, G., Karalar, M., “Use of Concentrator Wastes of Etibor Kirka Borax Company in Soft Porcelain Opaque Glazes as An Alternative Fluxing Agent”, *Key Eng. Mater.*, Vols. 264-68, 2497-2500, (2004).
- 16) Karasu, B., Kaya, G., Sevim, C., Orlansa, S., “Evaluation of A Natural Stone with Fluxing Capability in Stoneware Glazes”, *Key Eng. Mater.*, Vols. 264-68, 1621-24, (2004).
- 17) Kaya, G., Karasu, B., Ozdemir, M., “Effects of Aydın Çine Region’s Albite Flotation Wastes on the Properties of Floor Tile Bodies”, *Key Eng. Mater.*, Vols. 264-68, 2429-32, (2004).
- 18) Karasu, B., Caki, M., Akgun, E., Kaya, G., “Effects of the Red Mud Based Pigment Addition on the Physical and Micro-structural Properties of Porcelain Tiles”, *Key Eng. Mater.*, Vols. 264-68, 1613-16, (2004).
- 19) Karasu, B., Kaya, G., Sevim, C., Sen, E., “Utilisation of A Natural Stone with Fluxing Ability in Floor Tile Body as A Na-Feldspar Replacement”, *Key Eng. Mater.*, Vols. 264-68, 1705-08, (2004).
- 20) Karasu, B., Kaya, G., Aydasgil, A. and Kurama, H. “Use of Tuncbilek Thermal Power Plant’s Fly Ash in Stoneware Glazes as A Colouring Agent”, *Key Eng. Mater.*, Vols. 264-68, 2501-04, (2004).
- 21) Tuncan, M., Karasu, B., Yalcin, M., Tuncan, A., “The Effects of Filler Glasses on Mechanical Properties of Concrete”, *Key Eng. Mater.*, Vols. 264-68, 2169-72, (2004).
- 22) Dölekçekiç, E., Kaya, G., Karasu, B., Pomeroy, M., J., Hampshire, S., “Chemical Durability Behaviour of Bulk Glasses in the Er-SiAlON System: Surface Characterisation by Scanning Electron Microscopy”, *Key Eng. Mater.*, Vols. 264-68, 1887-91, (2004).
- 23) Karasu, B., Akgün, E., Kaya, G., “Effects of Red Mud Based Pigments on Wall and Floor Tile Glazes”, *Ceram. Int. Forum*, DKG 82, No: 10, E 41-44, (2005).
- 24) Arıöz, Ö., Tokyay, M., Arıöz, E., Tuncan M. and Karasu, B., “Properties of Fly Ash-Fgd Gypsum-Lime Based Products”, *Journal of the Australasian Ceramic Society*, Vol. 42, No.1, 13-21, (2006).
- 25) Tuncan, M., Arıöz, Ö., Ramyar, K., Karasu, B., “Assessing Concrete Strength by Means of Small Diameter Cores”, *Construction and Building Materials*, Vol. 22, Issue 5, 981-88, (2008).
- 26) Sezer, G. İ., Ramyar, K., Karasu, B., Göktepe, A. B., Sezer, A., “Image Analysis of Sulfate Attack on Hardened Cement Paste”, *Materials & Design*, Vol. 29, Issue 1, 224-31, (2008).
- 27) Arıöz, Ö., Kılınç, K., Karasu, B., Kaya, G., Arslan, G., Tuncan, M., Tuncan, A., Korkut, M., Kıvrak, S., “A Preliminary Research on the Properties of Lightweight

- Expanded Clay Aggregate”, *Journal of the Australasian Ceramic Society*, 44 [1] 23-30, (2008).
- 28) Arslan, G., Karasu, B., Dolekcekic, E., Kaya, G. and Gunkaya, G., “Effect of Transition Metal Oxide Additions on the Chemical Durability of SrO-MgO-ZrO₂ SiO₂ Glasses”, *Glass Technology: The European Journal of Glass Science & Technology Part A*, Vol. 50, No. 1, 17-24, (2009).
 - 29) Pekkan, K., Karasu, B., “Production of Opaque Frits with Low ZrO₂ and ZnO Contents and Their Industrial Uses for Fast Single-Fired Wall Tile Glazes”, *Journal of Mater. Sci.*, 44, 2533-2540, (2009).
 - 30) Pekkan, K., Karasu, B., “Zircon-Free Frits Suitable for Single Fast-Firing Opaque Wall Tile Glazes and Their Industrial Productions”, *Journal of the European Ceramic Society*, Vol. 29, Issue 9, 1571-1578, (2009).
 - 31) Kaya, G., Karasu, B., Karacaoglu, E., “Effects of Fritted Borax Solid Wastes on the Properties of Brick Bodies”, *Silicates Industriels*, Vol. 74, No. 11-12, 363-367, (2009).
 - 32) Pekkan, K., Karasu, B. and Onal, H. S., “The Production of Zircon-Free Opaque Wall Tile Frits and Their Use in Ceramic Industry”, *Tile & Brick International Manual*, 30-33, (2009).
 - 33) Pekkan, K., Karasu, B., “Evaluation of Borax Solid Wastes in Production of Frits Suitable for Fast Single-Fired Wall Tile Opaque Glass-Ceramic Glazes”, *Bull. Mater. Sci.*, Vol. 33, No. 2, pp. 135-144, (2010).
 - 34) Kaya, Yesilay, S., Karasu, B., Kaya, G., Karacaoglu, E., “Influences of Eu⁺³ and Dy⁺³ Contents on the Properties of Long Afterglow Strontium Aluminate Phosphors”, *Advances in Science and Technology*, Vol. 62, 88-94, (2010).
 - 35) Kaya, Yesilay, S., Karasu, B., Kaya, G., Karacaoglu, E., “Effects of Firing Temperature and Time on the Luminescency of Phosphors in Strontium Aluminate System Co-doped by Eu₂O₃ and Dy₂O₃ and Prepared by Solid State Reaction Processing”, *Advances in Science and Technology*, Vol. 62, 82-87, (2010).
 - 36) Kaya, G., Karasu, B. and Cakir, A., “Characterization of Diopside-Based Glass-Ceramic Porcelain Tile Glazes Containing Borax Solid Wastes”, *Journal of Ceramic Processing Research*, Vol. 12, Issue 2, 135-139, (2011).
 - 37) El Kazazz, H., Karacaoglu, E., Karasu, B. and Agatekin, M., “Production of Violet-blue Emitting Phosphors via Solid State Reaction and Their Uses in Outdoor Glass Fountain”, *the Journal of American Science*, 7 (12), 998-1004, (2011).
 - 38) Kaya, Yesilay, S., Karasu, B., “Process Parameters Determination of Phosphorescent Pigment Added, Frit-Based Wall Tiles Vetrosa Decorations”, *Ceramics International*, Vol. 38, Issue 4, 2757-2766, (2012).
 - 39) Kaya, Yesilay, S. and Karasu, B., “Glass and Ceramics with Phosphorescent Ability”, *Ceramics Technical*, No: 34, 94-99, (2012).
 - 40) Kaya, Yesilay, S., Karacaoglu, E. and Karasu, B., “Effect of Al/Sr Ratio on the Luminescence Properties of SrAl₂O₄: Eu²⁺, Dy³⁺ Phosphors”, *Ceramics International*, Vol. 38, Issue 5, 3701-3706, (2012).
 - 41) Kaya, Yesilay, S., Karacaoglu, E. and Karasu, B., “Particle Size Influence of Starting Batches on the Phosphorescence Behavior of Sr₄Al₁₄O₂₅ Based Bluish-Green Phosphors”, *Advances in Applied Ceramics: Structural, Functional and Bioceramics*, Vol. 111, No:7, 393-397, (2012).
 - 42) Karacaoglu, E. and Karasu, B., “The Effects of Re-Firing Process under Oxidizing Atmosphere and Temperatures on the Properties of Strontium Aluminate Phosphors”, *Mater. Research Bull.*, 48, 3702-3706 (2013).

- 43) Ayman A. A., Karasu, B., Allazov, M. R., Ilyasli, T. M., "Synthesis and Study of $Ce_xPr_xMg_{1-2x}Al_2O_4$ Ceramic Pigment by Combustion Method Using Malonic Acid Dihydrazide as Fuel", *International Journal of Scientific & Engineering Research*, Vol. 4, Issue 8, 1686-1690, (2014).
- 44) Karacaoglu, E. and Karasu, B., "The Effects of Different Activators and Sintering Atmosphere on the Luminescence Properties of Akermanite Type Phosphors", *Journal of the American Chemical Society*, 2015 (in review).
- 45) Karacaoglu, E., Karasu, B., Ozturk, E., "Investigations on Luminescence Characteristics and Influence of Doping and Co-doping Different Rare Earth Ions of White Phosphorescence Materials Having Different Luminescent Centers", *Periodical of Advances in Science and Technology, 13th International Ceramics Congress-Part D*, Vol. 90, 133-40, (2014).
- 46) Ayman A. A., Karasu, B., Allazov, M. R., Ilyasli, T. M., "Synthesis, Characterization and Study of the Effect Yb^{3+} on $MgAl_2O_4$ Spinel Structure via Combustion Method", *Chemistry Journal*, 2015 (in review).
- 47) Ayman A. A., Karasu, B., Allazov, M. R., Ilyasli, T. M., "Synthesis and Study of Ceramic Pigments Based on $Ce_xTb_xMg_{1-2x}Al_2O_4$ via Combustion Synthesis", *Advanced Powder Technology*, 2015 (in review).

7.2 Publications in Proceedings of International Conferences

- 1) Karasu, B., Cable, M., "The Alkali Resistance of Glasses Produced in the $SrO-MgO-ZrO_2-SiO_2$ System", *Proceedings of International Symposium on Glass Problems*, 200-210, (1996) İstanbul, Türkiye.
- 2) Karasu, B., Arslan, G. and Dölekçekiç, E., "The Effects of the SrO Replacement by both Mn_2O_3 and Fe_2O_3 on the General Properties of the Glasses in the $SrO-MgO-ZrO_2-SiO_2$ System", *10th International Metallurgy and Material Congress Proceedings*, 1441-1448, (2000) İstanbul, Türkiye.
- 3) Karasu, B., Turan, S. and Çakı, M., "The Effect of Heat Treatment on the Crystal Development of Zinc in the Soft Porcelain Glazes", *10th International Metallurgy and Material Congress Proceedings*, 1457-1464, (2000) İstanbul, Türkiye.
- 4) Karasu, B., Çakı, M. and Yeşilbaş Y. G., "Utilisation of Albite Triage Wastes in Soft Porcelain Zinc Crystal Glazes", *10th International Metallurgy and Material Congress Proceedings*, 1465-1472, (2000) İstanbul, Türkiye (in Turkish).
- 5) Karasu, B., Dölekçekiç, E., Taşpınar, B., Cömert, M. and Kart, E., "The Efforts of Decreasing Zircon Expenses in Floor Tile's Glazes Opacified by Zircon without Loosing Opacity", *10th International Metallurgy and Material Congress Proceedings*, 1545-1552, (2000) İstanbul, Türkiye.
- 6) Karasu, B., Kara, A., "Development and Characterisation of Coloured Glazes Suitable for Roofing Tiles", *Proceeding of the 1st International Terra Cotta Symposium*, 102-109, (2001) Eskisehir, Türkiye (in Turkish).
- 7) Karasu, B., Çakı, M., Kaya, G., "Evaluation of Aydın Çine Region's Flotation Waste in Some Ceramic Bodies", *Proceeding of the 1st International Terra Cotta Symposium*, 144-51, (2001) Eskisehir, Türkiye (in Turkish).
- 8) Karasu, B., Kaya, G., Yurdakul, H., Topkaya, A., "The Efforts on Utilization of Borax Solid Wastes in Wall Tile Bodies", *Abstract Book of the 104th Annual Meeting & Exposition of the American Ceramic Society*, 274, (2002) St. Louis, America.
- 9) Karasu, B., Kaya, G., Kozulu, R., "Evaluation of Etibank-Kırka Borax Solid Wastes of Turkey in Wall Tile Glazes", *Abstract Book of the 104th Annual Meeting & Exposition of the American Ceramic Society*, 275, (2002) St. Louis, America.

- 10) Karasu, B., Kurama, H., Kaya, G. and Aydaşgil, A., “Use of Tunçbilek Thermal Plant Fly Ash in Stoneware Bodies”, *Proceeding of the 11th International Metallurgy and Material Congress*, 894-899, (2002) Istanbul, Türkiye.
- 11) Karasu, B., Kaya, G., Özkara, Ö., “Coating of Brick and Roofing Tiles with Phosphorous Luminescence Glazes”, *Proceeding of the 2nd International Terra Cotta Symposium*, 108-113, (2002) Eskisehir, Türkiye (in Turkish).
- 12) Karasu, B., Çakı, M., Akgün, E., “Utilisation of Pigments Based on the Seydişehir Alüminium Factory’s Red Mud in Floor and Wall Tile Glazes”, *Proceeding of the 2nd International Terra Cotta Symposium*, 138-144, (2002) Eskisehir, Türkiye (in Turkish).
- 13) Karasu, B., Kaya, G. and Kozulu, R., “Characterization of Opaque Wall Tile Glazes Containing Etibor-Kırka Borax Solid Wastes of Turkey”, *Proceedings of International Ceramic Congress and Exhibition, Austceram 2002*, 191-192, (2002) Perth, Australia.
- 14) Karasu, B., Çakı, M. and Akgün, E., “The Use of Pigments Based on the Bayer Process Solid Wastes in Porcelain Tile Bodies”, *Proceedings of International Ceramic Congress and Exhibition, Austceram 2002*, 109-110, (2002) Perth, Australia.
- 15) Karasu, B., Gerede, E., “Effects of Fritted Borax Concentration Waste on the Properties of Floor Tile Glazes”, *Proceeding of the 1st International Boron Symposium*, 198-201, (2002) Kutahya, Türkiye (in Turkish).
- 16) Karasu, B., Kaya, G., Kozulu, R., “Use of Borax Concentration Waste in Wall Tile Glazes as a Replacement of K-Feldspar”, *Proceeding of the 1st International Boron Symposium*, 193-197, (2002) Kutahya, Türkiye (in Turkish).
- 17) Karasu, B., Kaya, G., Yurdakul, H., “Effect of the Etibor Kırka Borax Company’s Concentration and Derivation Wastes on the Properties of Wall Tile Body”, *Proceeding of the 1st International Boron Symposium*, 224-228, (2002) Kutahya, Türkiye (in Turkish).
- 18) Karasu, B., Kaya, G., Sevim, C., Çakır, D., “Use of a Natural Stone with Fluxing Capability in Soft Porcelain Crystal Glazes”, *Proceeding of the 3rd International Terra Cotta Symposium*, 262-267, (2003) Eskisehir, Türkiye (in Turkish).
- 19) Özel, E., Turan, S., Karasu, B., “Effect of Willemite Crystals and Willemite Pigment Addition on the Microstructure of Zinc Containing Soft Porcelain Crystal Glazes”, *Abstract Book of the 8. European Ceramic Society Congress*, 217 (B3) (2003) Istanbul, Türkiye.
- 20) Karasu, B. and Kaya, G., “Glass-Ceramic Glazes in the CaO-MgO-Al₂O₃-SiO₂ (CMAS) System for Porcelain Tiles”, *Proceedings of Austceram & The 3rd International Conference on Advanced Materials Processing*, 103-04, (2004) Melbourne, Australia.
- 21) Kaya, G. and Karasu, B., “ZrO₂-CaO-MgO-SiO₂ (ZrCMS) System Glass-Ceramic Glazes Suitable for Porcelain Tiles”, *Proceedings of Austceram & The 3rd International Conference on Advanced Materials Processing*, 301-02 (2004) Melbourne, Australia.
- 22) Karasu, B., Ariöz, Ö., Ariöz, E., Kaya, G., Tuncan, M., “Production of Expanded Clay Aggregates by Utilising Flotation Wastes”, *Abstract Book of the IX Conference and Exhibition of the European Ceramic Society*, p. 228, (2005) Portoroz, Slovenia.
- 23) Karasu, B., Kaya, G. and Taykurt, M., “The Effects of Borax Wastes on the Final Properties and Microstructure of Fast Fired CaO-MgO-Al₂O₃-SiO₂ (CMAS) Glass-Ceramic System Porcelain Tile Glazes”, *Abstract Book of the 9th International*

- Ceramic Processing Science Symposium*, ICPSS-044-2006, 24, (2006) Coral Springs, Florida, USA.
- 24) Karasu, B., Kaya, G. and Taykurt, M., "The Use of Borax Wastes in the Fast Fired ZrO_2 -CaO-MgO-SiO₂ (ZrCMS) Glass-Ceramic System Porcelain Tile Glazes", *Abstract Book of the 9th International Ceramic Processing Science Symposium*, ICPSS-045-2006, 25, (2006) Coral Springs, Florida, USA.
 - 25) Kavas, T., Karasu, B., "The Effects of Wastes Containing Boron on the Behaviors of OPC Particles", *Abstract Book of the 9th International Ceramic Processing Science Symposium*, ICPSS-030-2006, 22, (2006) Coral Springs, Florida, USA.
 - 26) Karasu, B., Kaya, G., Ozdemir, O., "Use of Borax Solid Wastes in Diopside Based Glass-Ceramic Floor Tile Glazes", *Proceedings of Sohn International Symposium on Advanced Processing of Metals and Materials: Principles, Technologies and Industrial Practice*, 529-534, (2006) San Diego, America.
 - 27) Kaya, G., Karasu, B., Karacaoglu, E., "Utilizing of Borax Solid Wastes in Roof Tile and Brick Bodies", *Proceedings of Sohn International Symposium on Advanced Processing of Metals and Materials: Principles, Technologies and Industrial Practice*, 535-543, (2006) San Diego, America.
 - 28) Kavas, T., Karasu, B., Arslan, O., "Usability of Industrial Ashes in Cement Production as Pozzolanic Materials", *Proceedings of Sohn International Symposium on Advanced Processing of Metals and Materials: Principles, Technologies and Industrial Practice*, 515-520, (2006) San Diego, America.
 - 29) Kavas, T., Karasu, B., Arslan, O., "Utilization of Refractory Brick Wastes in Concrete Production as Aggregates", *Proceedings of Sohn International Symposium on Advanced Processing of Metals and Materials: Principles, Technologies and Industrial Practice*, 479-483, (2006) San Diego, America.
 - 30) Özel, E., Badem, Y., Turan, S., Karasu, B., "Effect of Nucleating Agent on The Crystallization Behaviour and Microstructure of Zinc Containing Soft Porcelain Crystal Glazes", *Abstract Book of the ECERS Topical Meeting "Reliability of Ceramics"*, 52, (2006) Cracow, Poland.
 - 31) Karasu, B., Kaya, G., Taykurt, M., Çakır, A., Kavas, T., "Effects of Borax Wastes on the Final Properties of Fast Firing Glass-Ceramic Glazes Suitable for Porcelanized Tiles", *Proceeding of the 3rd International Boron Symposium*, p. 91-95, (2006) Ankara, Türkiye (in Turkish).
 - 32) Karaveli, K., Karasu, B. and Onal, H. S., "Decreasing of Zircon Content in Opaque Wall Tile Frits", *Proceeding Books of the X. Conference and Exhibition of the European Ceramic Society, Silicates and Traditional Ceramics Section*, 1602-1605, (2007) Berlin, Germany.
 - 33) Karasu, B., "Use of Borax Solid Wastes in Ceramics' World", *X. Conference and Exhibition of the European Ceramic Society, Silicates and Traditional Ceramics Section*, 1773-1778, (2007) Berlin, Germany.
 - 34) Caki, M., Karasu, B. and Kaya, G., "Use of Iron and Zinc Oxide Based Pigments in Stoneware Glazes", *Proceeding Books of the X. Conference and Exhibition of the European Ceramic Society, Silicates and Traditional Ceramics Section*, 1784-1787, (2007) Berlin, Germany.
 - 35) Arioç, O., Arslan, G., Tuncan, A., Tuncan, M., Kaya, G., Karasu, B., Kılınc, K., Kıvrak, S., "Lightweight Expanded Aggregate Production from Bottom Ash", *Proceeding Books of the X. Conference and Exhibition of the European Ceramic Society, Porous Functional Ceramics Section*, 2051-2053, (2007) Berlin, Germany.
 - 36) Kaya, G., Karasu, B. and Cakir, A., "Characterization of Diopside-Based Glass-Ceramic Porcelain Tile Glazes Containing Borax Solid Wastes", *Proceeding Books*

- of the X. Conference and Exhibition of the European Ceramic Society, Silicates and Traditional Ceramics Section, 1714-1718, (2007) Berlin, Germany.*
- 37) Ariož, O., Karasu, B., Kaya, G., Kılınc, K., Arslan, G., Tuncan, M., Tuncan, A., Kivrak, S. and Kale, B., "Effect of Pore Forming Agent on the Properties of Lightweight Expanded Clay Aggregate", *Proceeding Books of the 2nd International Congress on Ceramics*, (2008) Verona, Italy.
 - 38) Ariöz, Ö., Tuncan, M., Ramyar, K., Karasu, B., Tuncan A. and Kılınc, K., "Determination of Concrete Strength by Core Test; Effects of Sodium Sulphate and Frost Action", *8th International Congress on Advances in Civil Engineering Proceeding Book*, 77-89, (2008) Magosa, KKTC.
 - 39) Pekkan, K. K., Karasu, B. and Kucuk, A., "Production and Industrial Adaptation of Fast Single Firing Wall Tile Opaque Glass-Ceramic Glazes Containing Borax Solid Wastes", *REWAS 2008 Global Symposium on Recycling, Waste Treatment and Clean Technology*, 371-378, (2008) Cancun, Mexico.
 - 40) Karasu, B., Kaya, G., Cakir, A. and Yesilay, S., "Utilization of Borax Solid Wastes in Fast Single-Firing Porcelain Tile Glass-Ceramic Glazes under Industrial Working Conditions", *REWAS 2008 Global Symposium on Recycling, Waste Treatment and Clean Technology*, 379-387, (2008) Cancun, Mexico.
 - 41) Caki, M., Karasu, B., Yesilay, S., Imrak, R. and Bayraktar, C., "The Use of Fired Roof Tile and Brick Wastes in Stoneware Bodies as Alternative Raw Materials", *REWAS 2008 Global Symposium on Recycling, Waste Treatment and Clean Technology*, 1541-1548, (2008) Cancun, Mexico.
 - 42) Kavas, T., Akbulut, M. E., Ersoy, B., Olgun, A., Ariož, O., Karasu, B., Türk, A., Icduygu, M. G., Kavas, F. M. "Investigation on the Hydration Behaviour of the Borax Waste Incorporated Portland Cement in the Presence of Pectin", *11th International Conference and Exhibition of the European Ceramic Society*, (2009) Krakow, Poland.
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7.6 Other Publications

- 1) Karasu, B., Dölekçekic, E. and Özdemir, B., “Decreasing Zircon Expenses in Floor Tile Glazes”, TÜBİTAK (Science, Technology and Research Association of Turkiye) Ceramic Research Centre (SAM) *Project Report*, (2000).
- 2) Karasu, B., “Determination of Parameters Affecting Opacification in Transparent Frits”, TÜBİTAK (Science, Technology and Research Association of Turkiye) Ceramic Research Centre (SAM) *Project Report*, (2000).
- 3) Karasu, B. and Kaya, G., “Development of Glazes with Phosphorescence Ability”, TÜBİTAK (Science, Technology and Research Association of Turkiye) Ceramic Research Centre (SAM) *Project Report*, (2001).

- 4) Karasu, B., Arslan, G., Tuncan, M., Kaya, G. and Yalcın, M., “Reinforcement of Concrete by Aggregates and Fibres of SrO-MgO-ZrO₂-SiO₂ System Glasses”, Anadolu University, Research Fund (AFS) *Project Report*, (2002).
- 5) Karasu, B., Kaya, G. and Ozkara O., “Use of Phosphorescence Pigments in Several Glazes”, Anadolu University, Research Fund (AFS) *Project Report*, (2002).
- 6) Karasu, B. and Kaya, G., “Glass Ceramics in the ZrO₂-CaO-MgO-SiO₂ (ZrCMS) and CaO-MgO-Al₂O₃-SiO₂ (CMAS) Systems”, TUBITAK (Science, Technology and Research Association of Turkiye) Ceramic Research Centre (SAM) *Project Report*, (2003).
- 7) Karasu, B., Kaya, G., Çakır, A and Binal, G., “Evaluation of Kırka Borax Solid Wastes in the ZrO₂-CaO-MgO-SiO₂ (ZrCMS) and CaO-MgO-Al₂O₃-SiO₂ (CMAS) System Glass Ceramic Glazes Suitable for Fast Fired Granites”, TUBITAK (Science, Technology and Research Association of Turkiye)1001 Science and Technological Research Project Support Programme, *Project Report*, 105M351, (2007).
- 8) Karasu, B., Pekkan, K., “Production of Single Fast-Fired Wall Tile Opaque Frits with Lower (~25 %) Zircon Content”, TUBITAK (Science, Technology and Research Association of Turkiye) TEYDEB *Project Report*, 3060236, (2008).
- 9) Arıöz, Ö., Karasu, B., Kaya, G., Kılınç, K., Arslan, G., Tuncan, M., Tuncan A., Kıvrak, S., “Development of Expanded Clay Aggregates Leading to the Production of Light Weight Insulation Materials”, Anadolu University, Research Fund (AFS) *Project Report*, (2008).
- 10) Karasu, B., Kaya, G., “Production and Characterisation of Dental Porcelain without A Metal Support”, Anadolu University, Research Fund (AFS) *Project Report* (2008).
- 11) Kavas, T., Ersoy, B., Karasu, B., Kavas, F. M, Sarihan, A., Türk A., İçduygu, M. G., “Effects of Boron Containing Waste Usage on the Cement Hydration and Their Utilisation in Cement”, TUBITAK (Science, Technology and Research Association of Turkiye) 1001 Scientific and Technological Research Project Support Programme, *Project Report*, 107M087, (2009).
- 12) Karasu, B., Kaya, Yesilay, S., Karacaoğlu, E., Çakı, M., Özel, E., Kaya, G., “Production of Bluish-Green, Yellowish-Green Phosphorescence Pigments and Their Uses in Wall Tile Decoration Glazes and in Vetroza Applications”, TUBITAK 1001 Scientific and Technological Research Project Support Programme, *Project Report*, 108M464, (2010).
- 13) Karasu, B., Yet, G., “Decreasing Frit Content in Single (Monoporosa) Fast-Firing Wall Tile Glazes”, Ceramic Research Center (SAM) Co., *Project Report*, (2010).
- 14) Karasu, B., Yurdakul, T, A., Dölekçekiç, E., Günkaya, G., Kavas, T., “The Use of SMFMZS (SrO-Mn₂O₃-Fe₂O₃-MgO-ZrO₂-SiO₂) System Glass Fibres in Concrete Reinforcement”, 1003F107, Anadolu University, Research Fund (AFS) *Project Report*, (2013).
- 15) Karasu, B., “Development of Phosphorescent Pigments Emitting Red Colour and Its Shades, Their Productions at Pilot Scale and Utilizations in Ceramic, Glass and Metal Sectors”, T.R. the Ministry of Science, Industry and Technology, San-Tez Research *Project Report*, (2013).
- 16) Karasu, B., “Production of Phosphorescent Pigments with White Colour Emission and Their Uses in Ceramic, Glass and Metal”, KOSGEB Research-Development, Inovation and Industrial Application Support Programme *Project Report*, (2013).

- 17) Karasu, B., "The Development of Long Life Red Phosphorescent Pigments in Several Oxide-Based Systems", Anadolu University, Publication and Research Promotion *Project Report*, (2014).
- 18) Karasu, B., "Improving Intensity and Lifetime of White Light Emitting Phosphors", Anadolu University, Publication and Research Promotion *Project Report*, (2015).

8. Projects

- 1) "Reinforcement of Concrete by Aggregates and Fibres of SrO-MgO-ZrO₂-SiO₂ System Glasses", Anadolu University, Research Fund (AFS) Project, *Head of the Project*, 980211, (1999).
- 2) "Decreasing Zircon Expenses in Floor Tile Glazes", TÜBİTAK (Science, Technology and Research Association of Türkiye) Ceramic Research Centre (SAM) Project, *Head of the Project*, P/99-07, (1999).
- 3) "Determination of Parameters Affecting Opacification in Transparent Frits", TÜBİTAK (Science, Technology and Research Association of Türkiye) Ceramic Research Centre (SAM) Project, *Head of the Project*, P/2000-03-Special, (2000).
- 4) "Development of Glazes with Phosphorescence Ability", TÜBİTAK (Science, Technology and Research Association of Türkiye) Ceramic Research Centre (SAM) Project, *Head of the Project*, P/2001-03, (2001).
- 5) "Use of Phosphorescence Pigments in Several Glazes", Anadolu University, Research Fund (AFS) Project, *Head of the Project*, 000256, (2001).
- 6) "Glass Ceramics in the ZrO₂-CaO-MgO-SiO₂ (ZrCMS) and CaO-MgO-Al₂O₃-SiO₂ (CMAS) Systems", TÜBİTAK (Science, Technology and Research Association of Türkiye) Ceramic Research Centre (SAM) Project, *Head of the Project*, P/2003-01, (2003).
- 7) "Evaluation of Kırka Borax Solid Wastes in the ZrO₂-CaO-MgO-SiO₂ (ZrCMS) and CaO-MgO-Al₂O₃-SiO₂ (CMAS) System Glass Ceramic Glazes Suitable for Fast Fired Granites", TÜBİTAK (Science, Technology and Research Association of Türkiye) 1001 Science and Technological Research Project Support Programme, Project, *Head of the Project*, 105M351, (2007).
- 8) "Development of Expanded Clay Aggregates Leading to the Production of Light Weight Insulation Materials", Anadolu University, Research Fund (AFS) Project, *Researcher*, (2008).
- 9) "Production and Characterisation of Dental Porcelain without A Metal Support", Anadolu University, Research Fund (AFS) Project, *Head of the Project*, (2008).
- 10) "The Production of Single Fast Firing Opaque Wall Tile Frits with Decreased Zircon Content (~25 %)", TÜBİTAK (Science, Technology and Research Association of Türkiye) TEYDEB Project, *Supervisor*, (2008).
- 11) "Effects of Boron Containing Waste Usage on the Cement Hydration and Their Utilisation in Cement", TÜBİTAK (Science, Technology and Research Association of Türkiye) Research Project, *Researcher*, (2009).
- 12) "Upper Graduation Research-Education Programme for the Purpose of Increasing Industrial Research and Development Capacity", DPT Project, No: 2004K120270, *Researcher*, (2009).
- 13) "Production of Bluish-Green, Yellowish-Green Phosphorescence Pigments and Their Uses in Wall Tile Decoration Glazes and in Vetroza Applications", TÜBİTAK (Science, Technology and Research Association of Türkiye) 1001 Science and Technological Research Project Support Programme, Project, *Head of the Project*, (2010).

- 14) “Decreasing Frit Content in Single (Monoporosa) Fast-Firing Wall Tile Glazes”, Ceramic Research Center (SAM) Co., Project, *Head of the Project*, (2010).
- 15) “Evaluation of Present Potential of Eskisehir and Its Surroundings”, Anadolu University Project, *Researcher*, (2010).
- 16) “Establishment of Modelling with Process Management in Engineering and Architecture Faculty”, Anadolu University, Infrastructure Project, *Researcher*, 1103F052, (2011).
- 17) “Development of Phosphorescent Pigments Emitting Red Colour and Its Shades, Their Productions at Pilot Scale and Utilizations in Ceramic, Glass and Metal Sectors”, T.R. the Ministry of Science, Industry and Technology, San-Tez Research Project, *Head of the Project*, (2013).
- 18) “Production of Phosphorescent Pigments with White Colour Emission and Their Uses in Ceramic, Glass and Metal”, KOSGEB Research-Development, Innovation and Industrial Application Support Programme Project, *Head of the Project*, (2013).
- 19) “Pilot Scale Productions of Phosphorescent Powders with Different Colour Emissions and Searching Their Application Fields”, Eskisehir Anadolu Technology Research Park (ATAP) Co. Project, *Head of the Project*, (2013).
- 20) “Use of the SMFMZS (SrO-Mn₂O₃-Fe₂O₃-MgO-ZrO₂-SiO₂) system Glass Fibres in Concrete Reinforcement”, Anadolu University, Scientific Research Project, *Head of the Project*, 1003F107, (2013).
- 21) “The Development of Long Life Red Phosphorescent Pigments in Several Oxide-Based Systems, Anadolu University, Publication and Research Promotion Project, 1306F209, *Head of the Project*, (2013).
- 22) “Improving Intensity and Lifetime of White Light Emitting Phosphors”, Anadolu University, Publication and Research Promotion Project, 1404F153, *Head of the Project*, (2015).

9. Management Duties

Deputy Head, Department of Ceramic Engineering, Anadolu University, 1999-2001.

Principal Member of Directors Board, Turkish Ceramic Society, 2002-2006.

Deputy Head, Department of Materials Science and Engineering, Anadolu University, 2005-2006.

Member of Faculty Commission, Faculty of Engineering and Architecture, Anadolu University, 2005- 2007.

Member of Faculty Governing Commission, Faculty of Engineering and Architecture, Anadolu University, 2005-2007.

Principal Member of Auditors Board, Turkish Ceramic Society, 2006-2008.

Principal Member of Directors Board, Turkish Ceramic Society, 2008-2010.

Principal Member of Auditors Board, Turkish Ceramic Society, 2010-2014.

Head, Department of Materials Science and Engineering, Anadolu University, 2010-2012.

Member of Faculty Commission, Faculty of Engineering and Architecture, Anadolu University, 2010-2012.

Head, Ceramic Engineering Science Branch, Graduate School of Sciences, Anadolu University, 2010-2013.

Member of Institute Commission, Graduate School of Sciences, Anadolu University, 2010- 2013.

10. Memberships

Turkish Ceramic Society
Chamber of Metallurgical Engineers
European Ceramic Society
International Enamellers Institute

11. Scholarships and Awards

National Education Ministry of Turkiye, MSc. and PhD. Scholarship, 1989.
Middle East Technical University, Prof. Dr. Mustafa Parlar Foundation Technology Promotion Awards, 2001.
Invitation to the Group Work organised by Forgea International Training and Cooperation Centre of Italy in the 21-26th of March 2005 in Iglesias-Monteponi, Caglary, 2005.
Turkish Ceramic Society, the Year 2008 Science, Art and Technology Branch Ceramic Honorary Award, 2008.
Turkey Technology Development Foundation (TTGV), 4. Dr. Akin Cakmakci, The Most Successful Thesis and Company in University-Industry Collaboration Award, 2012.
All Industrialist and Businessmen Society (TÜMSİAD) Eskisehir Branch, The Most Successful Businessman of the Year Award, 2012.

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