

CURRICULUM VITAE

Dr. Recep Karadag

CURRENT POSITION

Istanbul Aydin University, 2019-present

Faculty of Fine Arts, Department of Fashion and Textile Design

&

Turkish Cultural Foundation, 2008-present

Turkish Cultural Foundation, Cultural Heritage Preservation and Natural Dyes Laboratory

PREVIOUS POSITIONS

Marmara University, 1990 - 2019

Faculty of fine Arts, Laboratory for Natural Dyes

CONTACT DETAILS

Istanbul Aydin University, Faculty of Fine Arts, Department of Fashion and Textile Design

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&

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QUALIFICATIONS

(2019) Full Professor, Istanbul Aydin University

(2009) Full Professor, Marmara University

(2004) Associate Professor, Marmara University

(2004) Associate Professor (Textile Engineer), International Universities Council of Turkey

(1994) PhD Analytical Chemistry, Marmara University

(1986) BSc, Chemistry, Marmara University

PROFESIONAL BOARDS AND MEMBERSHIP

Friends of Cultural Heritage

Carpet Society

Journal of Natural Fibers

Zeitschrift für die Welt der Türken

"Yedi" Art, Design and Science

Member of Textile Society of America

AWARDS

1. (2013): Marmara University, Science
2. (2012): Contribution to Turkish Cultural Heritage
3. (2012): Scientific and Technological Research Council of Turkey, publication incentive
4. (2010): Scientific and Technological Research Council of Turkey, publication incentive
5. (2007): Scientific and Technological Research Council of Turkey, publication incentive
6. (2004): Marmara University, publication incentive

ORGANIZATION

1. (2012): 2nd International Congress, " Chemistry for Cultural Heritage, Istanbul, Turkey
2. (2011): 5th Summer School Conservation Science, Istanbul, Turkey
3. (2010): International Symposium of East of the West- West of the East, New Approaches in Art and Design, Istanbul ,Turkey
4. (2008): 27th meeting of Dyes in History and Archaeology, Istanbul ,Turkey

TEACHING PROGRAMMES

History of Natural Dyes

Natural Dyeing: Practice and Principles

History of Textile Technology

Textile Fibers

Natural Organic Lake pigments

Application of Instrumental Analysis on Historical Art Objects

PUBLICATIONS

Books

1. **Karadag, R.** (2020) Republic Period Turkish Carpet, Book chapter: "Natural Dye Analyses in the Historical Anatolian Carpets", Etkileşim Bas. No.19, Ankara, ISBN: 978-975-17-4695-5.
2. **Karadag, R.** (2014) Dragon "Horse Saddle Rugs and other Horse Tack from Chine and Beyond, chapter:(Technical Details) (2014)., Communication Art Design Printing Ltd., Editör:Drs. Koos de Jong, ISBN:978-962-7502-92-0
3. **Karadag, R.** (2013): **Applying the Techniques Materials I (Identification of Natural Dyes by RP-HPLC-DAD and Natural Dyeing Procedures, *Conservation Science for the Cultural***

- Heritage (Application of Instrumental Analysis)***, Varella, E. A. (Ed) Springer-Verlag (pp. 172-186). Berlin Heidelberg
4. **Karadag, R.** (2013): ***Technical Details*** (chapter), ***Dragon and Horse*** (Drs. Koos de Jong). Communication Art Design & Printing Ltd. (pp. 166-171), Hong Kong
5. **Karadag, R.** & (Editor), (2010): International Symposium, ***East of the West- West of the East, New Approaches in Art and Design***, Marki Matbaa Ajans san. ve tic. Ltd.Şti İstanbul
6. **Karadag, R.** (2008): ***Doğal boyama reçeteleri (Natural Dyes Receipts)***, T.C. Kültür ve Turizm Bakanlığı Ankara
7. **Karadag, R.** (2007): ***Doğal Boyamacılık (Natural Dyeing)***, T.C. Kültür ve Turizm Bakanlığı Ankara
8. **Karadag, R.** (2006): ***The Importance of Dye Analysis*** (chapter), ***The Miracle of Knots.*** Karekter Color Matbası A.Ş. İstanbul
9. Böhmer, H. & Enez, N., **Karadag, R.** & Koween, C. (2002): **KOEKBOYA**, Verlag Ganderkesee, Germany
10. **Karadag, R.** & Böhmer, H. (2000): ***Farbanalytische untersuchungen***, (Chapter), ***Die Textilien aus Palmyra.*** Al-Asoad, A. S. A. S. K. (Ed) Deutsches Archalogisches Institut Orient-Abteilung Mainz am Rhein
11. **Karadag, R.**, Enez, N. & Böhmer, H. (1998): ***Dye Analysis of classical Indian and Persian carpets (chepter), Flowers Underfoot, Indian Carpets of the Mughal Era,*** Metropolitan Museum of Art New York
12. **Karadağ, R.** & Böhmer, H. (1997): ***The Color of Konya Capadocia Carpets (chapter), Konya Capadocia Carpets from the 17 th to 18 th Centuries,*** Eren, Istanbul

13. **Karadag, R. & Böhmer, H. (1993): Analysis of dyes** (chapter), *Kaitag Textile Art from Daghestan*, Chenciner, R. (Ed) Textile Art Publications London

Articles

1. **Karadag Recep** and Yusuf Yildiz (2021) Examination of Dyeing Properties of the Dyed Organic Cotton Knitting Fabrics Using Yarrow (*Achillea Biebersteinii* AFAN and *Achillea Millefolium* L.), Journal of Natural Fibers. <https://doi.org/10.1080/15440478.2021.1946881>
2. Banu Yeşim Buyukakinci, **Recep Karadag** and Emine Torgan Guzel (2021) Organic cotton fabric dyed with dyer's oak and barberry dye by microwave irradiation and conventional methods, industria textile, DOI: [10.35530/IT.072.01.1755](https://doi.org/10.35530/IT.072.01.1755).
3. Yıldız CAKMAK, **Recep KARADAG**, Nilhan KAYAMAN APOHAN, Ömer Yiğit ARAL and Emrah CAKMAKCI (2021) Characterization of the Alphabet Reform Painting, JOTCSA; 8(1): 251-264, [https://doi.org/ 10.18596/jotcsa.813787](https://doi.org/10.18596/jotcsa.813787).
4. Deveoglu Ozan, **Karadag Recep**, Torgan Emine, Spinella Alberto (2021). Examination of Dyeing Properties on Silk of Some Flavonoids by Spectroscopic Techniques. Journal of Natural Fibers, <https://doi.org/10.1080/15440478.2019.1616650>
5. Yusuf Yildiz, **Recep Karadag**, Irmak Cengiz (2021) Comparison of Spectrophotometric Methods for Determination of Iron in Acid Cleaning, and Passivating Stainless Steel Solution by UV-VIS, ICP/MS, and FAAS, Science Journal of Analytical Chemistry; 9(2): 32-38, <http://www.sciencepublishinggroup.com/j/sjac> doi: [10.11648/j.sjac.20210902.11](https://doi.org/10.11648/j.sjac.20210902.11)
6. Guzal Massadikova, **Recep Karadag**, Abdulkadir Pars, Meral Ozomay (2020) Physicochemical Characterization Of Leather Objects Of The Byzantine Period, Mediterranean Archaeology and Archaeometry Vol. 20, No 3, pp. 107-119, DOI: [10.5281/zenodo.3930404](https://doi.org/10.5281/zenodo.3930404)
7. Yildiz, R. **Karadag**, M. Cordera, B. Gensinger (2020) Determination of Manganese in Tri Calcium Phosphate (TCP) by Atomic Absorption Spectrometry, American Journal of Analytical Chemistry, 11, 301-308, DOI: [10.4236/ajac.2020.118024](https://doi.org/10.4236/ajac.2020.118024)
8. Yildiz Y., **Karadag Recep**, Jackson S. and Gensinger B. (2020) Iodine Value in Partially Hydrogenated Castor Oil (Ricinus Oil) as determined by AOCS Official Method Cd 1-25 (Wijs' Method), Advances in Clinical Toxicology, 5(3).
9. **Karadag Recep**, Buyukakinci Banu Yesim and Guzel Torgan Emine (2020). Extraction and Natural Cotton Dyeing of Valonia Oak and Anatolian Buckthorn by Microwave Irradiation. Journal of natural Fibers. <https://doi.org/10.1080/15440478.2020.1731907>
10. Guzel Torgan Emine, **Karadag Recep** (2019). Sustainability of Organic Cotton Fabric Dyeing with a Natural Dye (Gallnut) and Analysis by Multitechnique Approach. Journal of Natural Fibers, <https://doi.org/10.1080/15440478.2019.1687064>

11. Deveoglu Ozan, **Karadag Recep** (2019). A Review on the Flavonoids – A Dye Source. *Int. J. Adv. Eng. Pure Sci.* DOI: 10.7240/jeps.476514
12. Oraltay, R. Gurcan, **Karadag Recep** (2019). Surface Investigation of Metal Threads and Solid Metals of Ottoman Textiles in the Topkapi Palace Museum
13. Güzel Torgan Emine, **Karadag Recep**, Alkan Rezan (2020). Durability, Antimicrobial Activity and HPLC Analysis of Dyed Silk Fabrics Using Madder and Gall Oak. *Journal of Natural Fibers*, 17 (11),1654-1667. Doi: 10.1080/15440478.2019.1588827
14. Deveoglu Ozan, **Karadag Recep**, Torgan Emine,Yildiz Yusuf (2019). Examination of Dyeing Properties of the Dyed Cotton Fabrics with Barberry (*Berberis vulgaris/i L.*)/title. **Journal of Natural Fibers**, 1-10., Doi: 10.1080/15440478.2018.1558143
15. Deveoglu Ozan,Torgan Emine, **Karadag Recep** (2018). Investigation of Natural Lake Pigments Prepared With a Mixture of Hemp(*Datisca cannabina L.*) and Weld (*Reseda luteola L.*). **Jordan Journal of Chemistry**, 13(2), 103-114.
16. Yilmaz Sahinbaskan Burcu, **Karadag Recep**, Torgan Emine (2018). Dyeing of silk fabric with natural dyes extracted from cochineal (*Dactylopius coccus Costa*) and galloak (*Quercus infectoria Oliv ier*). **Journal of Natural Fibers**, 15 (4), 559-574. Doi : <https://www.tandfonline.com/doi/full/10.1080/15440478.2017.1349708>
17. Oybak Dönmez Emel, Akyol Alı Akın, **Karadag Recep**,Torgan Emine, Iren Kaan (2017). Ancient plant remains with special referenceto buckthorn, *Frangula alnus Mill.*, pyrenes from Dascyleum, Balıkesir, NW Turkey. **Acta Societatis Botanicorum Poloniae**, 86(1)
18. Alkan Rezan,Torgan Emine,**Karadag Recep** (2017). The Investigation of Antifungal Activity and Durability of Natural Silk Fabrics Dyed with Madder and Gallnut. **Journal of Natural Fibers**, 14(6), 769-780., Doi: 10.1080/15440478.2017.1279101
19. Zoi Eirini Papiiaka, Alexandros Kostanta, Ioannis Karapanagiatos, **Karadag Recep**, Akyol Ali Akın,Dimitrios Mantzouris,Panagiotis Tsiamyrtzis (2017). FTIR imaging and HPLC reveal ancient painting and dyeing techniques of molluskan purple. **Archaeol Anthropol Sci**, 9(2), 197-208., Doi: 0.1007/s12520-015-0270-3
20. Kahraman Nilgün, **Karadag Recep** (2017). Characterization of Sixteenth to Nineteenth Century Ottoman Silk Brocades by Scanning Electron Microscopy–Energy Dispersive X-Ray Spectroscopy and High-Performance Liquid Chromatography. **Analytical Letters**, 50(10), 1553-1567., Doi: 10.1080/00032719.2016.1236264
21. Özer Lale, **Karadag Recep**, Torgan Emine (2016). Investigation of the Effect of Turkey Red Oil on Colour Fastness Properties and HPLCDADAnalysis of Silk Fabrics Dyed with Madder *Rubia Tinctorium L* and Gall Oak. **Tekstil ve Mühendis** (Journal of Textiles and Engineer), 23(103), 197-204., Doi: 10.7216/1300759920162310305
22. **Karadag Recep**, Torgan Emine (2016). Advantages and Importance of Natural Dyes in the Restoration of Textile Cultural Heritage. **International Journal of Conservation Science**, 7, 357-366.
23. Emine Torgan, Lale Meycan özer, **Karadag Recep** (2015). Colorimetric and fastness studies and analysis by reversed phase high performance liquid chromatography with

diode array detection of the dyeing of silk fabric with natural dye *Helichrysum arenarium*. **COLORATION TECHNOLOGY**

24. Ioannis Karapanagiotis, **Karadag Recep** (2015). Dyes in Post Byzantine and Ottoman Textiles A Comparative HPLC Study. **Mediterranean Archaeology & Archaeometry**, 15(1), 177-189.
25. Yıldız Yusuf, **Karadag Recep** (2015). PERIODIC COMPARISON OF TWO SELECTED HISTORICAL CAFTANS BY NONDESTRUCTIVE AND MICRO ANALYSIS METHODS. **INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY**
26. **Karadag Recep**, Emine Torgan, Tasköprü Turan, Yıldız Yusuf (2015). Characterization of Dyestuffs and Metals from Selected 16 17th Century Ottoman Silk Brocades by RP HPLC DAD and FESEMEDX. **JOURNAL OF LIQUID CHROMATOGRAPHY RELATED TECHNOLOGIES**, 38(5)
27. **Karadag Recep**, Emine Torgan, Erkan Gökhan (2014). Dyeing Properties and Analysis by Rp Hplc Dad of Silk Fabrics Dyed with Madder *Rubia tinctorum* L. **Textile Science Engineering**, 4(2)
28. **Karadağ, R.**, E.C, , E.T, ., O.D, , A.F, & A.M., (2014). HPLC-DAD Analysis of *Thymus serpyllum* Based Natural Pigments and Investigation of Their Antimicrobial Properties. **Pigment & Resin Technology**. No. 1. Vol.43 pp.19-25
29. Deveoğlu, O., Erkan, G., Torgan, E & **Karadag, R.** (2013): “*The evaluation of procedures for dyeing silk with buckthorn and walloon oak on the basis of colour changes and fastness characteristics*”, **Coloration Technology**, no. 3, vol. 129, pp. 223-231
30. **Karadag, R.**, Yıldız, Y., Güneş, A. & Yalçın, B. (2013): “*Natural Pigments from the Gall Oak (*Quercus infectoria Olivier*) Shellac*”, **Asian Journal of Chemistry**, no. 12, vol. 25, pp. 6881-6884
31. Deveoğlu, O. & Torgan, E., & **Karadag, R.** (2012): “*Identification by RP-HPLC-DAD of natural dyestuffs from lake pigments prepared with a mixture of weld and dyer’s oak plants*”, **Journal of Liquid Chromatography & Related Technologies**, no. 3, vol. 35, pp. 331-342
32. Deveoğlu, O., Torgan, E. & **Karadag, R.** (2012): “*High-performance liquid chromatography of some natural dyes: analysis of plant extracts and dyed textile*”, **Coloration Technology**, no.2, vol. 128, pp. 133-138
33. Deveoğlu, O., Çakmalçı, E., Taşköprü, T., Torgan, E. & **Karadag, R.** (2012): “*Identification by RP-HPLC-DAD, FTIR, TGA and FESEM-EDAX of natural pigments prepared from *Datisca cannabina* L.*”, **Dyes and Pigments**, no.1, vol. 94, pp. 437-442
34. Deveoğlu, O., Muhammed, A., Fouad, A., Torgan, E. & **Karadag, R.**, (2012): “*Chromatographic Analysis of Natural Pigments Produced from *Datisca cannabina* L. and *Quercus infectoria Oliv.* Plants and their Antimicrobial Activity*”, **J. Chem. Soc. Pak.**, no. 3. vol. 34, pp.890-895

35. Deveoğlu, O., Karadag R., Torgan, E. & Sahinbaskan, B. Y. (2012): "Investigation on colour, fastness properties and HPLC-DAD analysis of silk fibres dyed with *Rubia tinctorium* L. and *Quercus ithaburensis* Decaisne", **Coloration Technology**, no. 5, vol. 128, pp. 364-370
36. Deveoğlu, O., Torgan, E. & Karadag, R. (2012): "The characterisation by liquid chromatography of lake pigments prepared from European Buckthorn (*Rhamnus cathartica* L.)", **Pigment & Resin Technology**, no. 6, vol. 41, pp. 336-344
37. Karadag, R. & Torgan, E. (2012): "Analyses of Dye, Weaving and Metal Thread in Ottoman Silk Brocades and their Reproduction", **Textiles and Politices**, no.1, vol. 13, pp.1-13
38. Karadag, R., Cucen, E. & Yildiz, Y. (2011): "Formation and HPLC Analysis of the Natural Pigments Obtained from Weld (*Reseda luteola* L.)", **Asian Journal of Chemistry**, no.10, vol. 23, pp. 4403-4406
39. Deveoglu, O., Sahinbaskan, B., Torgan, E. & Karadag, R. (2011): "Dyeing Properties and Analysis by RP-HPLC-DAD of Silk Fabers Dyed with Weld (*Reseda luteola* L.) and Wallon Oak (*Quercus ithaburensis* Decaisne", **Asian Journal of Chemistry**, no. 12, vol. 23, pp. 5441-5446
40. Karadag, R., Yurdun, T., Dolen, E. & Mubarak, M. S. (2011): "Identification of natural yellow, blue, green and black dyes in 15-17th centuries Ottoman silk and wool textiles by HPLC with Diode Array Detection", **Reviews in Analytical Chemistry**, no.1, vol. 30, pp. 153-164
41. Deveoglu, O., Karadag, R., & Yurdun, T. (2011): "Qualitative HPLC Determination of Main Anthraquinone and Lake Pigment Contents from *Dactylopius coccus* Dye Insect", **Chemistry of Natural Compounds**, no. 1, vol. 47, pp. 103-104
42. Karadag, R., Arca, S., Torgan, E., Dağcı, K. & Taşköprü, T. (2011): Project of restoration and conservation of sultan costumes in Topkapı Place Museum. **5th International Congress on: "Science and technology for the Safeguard of Cultural Heritage in the Mediterranean Basin (DIAGNOSTICS AND RESTORATION)**, no.1. vol. 3, pp. 251-263
43. Karadag, R. & Deveoğlu, O. (2011): "Genel Bir Bakış: Doğal Boyarmaddeler (Natural Dyestuffs)", **Fen Bilimler Dergisi**, no.1, vol. 23, pp. 21-32
44. Karadag, R., Torgan, E. & Yurdun, T. (2010): "Formation and HPLC analysis of the natural lake pigment obtained from madder (*Rubia tinctorum* L.)", **Reviews in Analytical Chemistry**, no.1, vol. 29, pp. 1-12
45. Deveoğlu, O. , Torgan, E. & Karadag, R. (2010): "Characterization of colouring matters by HPLC-DAD and colour measurements preparation of lake pigments with Ararat kermes (*Porphyrophora hameli* Brand)", **Jordan Journal of Chemistry**, no. 3, vol. 5, pp. 307-315
46. Deveoğlu, O., Torgan, E. & Karadag, R. (2010): "Identification of Dyestuffs in the Natural Pigments Produced with Al (III), Fe (II) and Sn (II) Mordant Metals from Cochineal (*Dactylopius coccus* Costa) and Wallon oak (*Quercus ithaburensis* Decaisne) by HPLC-DAD", **Asian Journal of Chemistry**, no.9, vol. 22, pp. 7021-7030

47. Karadag, R., Yurdun, T. & Dolen, E. (2010): "Identification of Natural Red Dyes in 15-17th Centuries Ottoman Silk Textiles (Kaftan, Brocades, Velvets and Skullcaps) by HPLC with Diode Array Detection", **Asian Journal of Chemistry**, no.19, vol. 22, pp. 7043-7056
48. Karadag, R. & Yurdun, T. (2010): "Dyestuff and Colour Analyses of the Seljuk Carpets in Konya Ethnography Museum", **Conservation and the Eastern Mediterranean, Proceeding**, pp.178-183
49. Karadag, R., Erdogan, G. & Eler, A. (2010): "Aluminium (III), Fe (II) Complexes and Dyeing Properties of Apigenin (5,7,4'-trihydroxy flavone)", **Reviews in Analytical Chemistry**, no. 3-4, vol. 29, pp. 211-231
50. I., K., D., M., Y., C., Karadag, R., H.A., S., M.A., A., M.S., M., T., Y., Al Saadf, Z., O.A., K., , P. L. & F., S. (2009): " Inter-Laboratory Chemical Study of Natural Materials from the Historical Wiesner Collection", **Jordan Journal of Chemistry**, no. 2, vol. 4, pp. 195-208
51. Deveoğlu, O. Karadag, R. & Yurdun, T. (2009): "Formation and HPLC analysis of the natural pigment obtained from buckthorn (*Rhamnus petiolaris* Boiss)", **Jordan Journal of Chemistry**, no. 4, vol. 4, pp. 377-385
52. Karadag, R. (2008): "Identification of natural dyes in historical textiles by liquid chromatography", **Chemistry and Conservation Science Residential Proceeding**, pp. 131-140
53. Karadag, R., Erdoğan, G., Bayar, M. & Dölen, E. (2007): "Determining stability constants of naringenin (4',5,7-trihydroxy flavone) complexes with aluminium (III) and iron (II) by potentiometric and spectrophotometric methods", **Reviews in Analytical Chemistry**, no. 3, vol. 26, pp. 169-185
54. Karadag, R. & Dölen, E. (2007): "Re-examination of Turkey Red", **Annalia di Chimica**, no. 7, vol.97, pp. 583-587
55. Karadag, R. & Erdoğan, G. (2006): "Potentiometric and Spectrophotometric Studies of The Mixed-Ligand Complexes of Quercetin And Digallic Acid with Iron(II) and Magnesium(II)", **Reviews in Analytical Chemistry**, no. 4. vol. 25, pp. 257-269
56. Karadag, R., Erdoğan, G. & Dölen, E. (2005): "Potentiometric and Spectrophotometric Determination of the Stability Constants of Quercetin (3,3',4',5,7-pentahydroxyflavone) Complexes with Aluminium (III) and Iron (II)", **Reviews in Analytical Chemistry**, no. 4, vol. 24, pp. 247 -261
57. Karadag, R. & Erdoğan, G. (2005): "Quercetin (3,3',4',5,7-pentahydroxyflavone) Complexes with Calcium (II) and Magnesium (II), Its Potentiometric and Spectrophotometric Studies", **Reviews in Analytical Chemistry**, no. 1, vol. 24, pp. 9 -23
58. Karadag, R. (2003): "The Determination of Stability Constants of Luteolin (3',4',5,7-tetrahydroxyflavone) Aluminium(III) and Iron(III) Complexes by Potentiometric and Spectrophotometric Methods", **Chemical Analysis**, no. 6, vol. 48, pp. 931- 937

59. Böhmer, H. & Karadag, R. (2003): "New Dye Research on Palmyra Textiles", **Dyes in History and Archeology**, vol. 19, pp. 87-93
60. Karadag, R. (2002): "Research on the Dyes in Historical Textiles in Museums of Istanbul", **Arts of Asia**, no. 4, vol. 32, pp. 134-139
61. Karadag, R. (2001): "Doğal boyamacılıkta kullanılan boyarmadde kaynakları ve mordan maddelerinin boyamaya etkisi (Effect of mordant metals in the natural dyeing)", **Oneri**, no. 16, vol. 4, pp. 145-150
62. Karadağ, R. & Böhmer, H. (2001): "Dye analyses by derivative UV/VIS spectrophotometry", **Dyes in History and Archeology**, vol. 16/17, pp. 106-118
63. Karadag, R. (1999): "Topkapı Sarayı Müzesinde Bulunan XVI. yüzyıldan Kalma Bazı İpeklî Kumaşların Boyarmadde Analizleri (Dyestuff analysis of some 16th century silk velvet and brocades in Topkapi Place Museum)", . **Atatürk Kültür Dil ve Tarih Yüksek Kurulu, Erdem, Halı Özel Sayısı II**, no. 29, vol.10, pp. 355-360, 482-485
64. Karadag, R. & Dölen, E. (1997): "Examination of historical textiles with dyestuff analyses by TLC and derivative spectrophotometry", **Turkish Journal of Chemistry**, no.2, vol.21, pp. 126-133
65. Karadag, R. (1997): "Türk Halı, Kilim ve Kumaşlarda Kullanılan Doğal boyarmaddeler (Natural dyes in Turkish carpets, kilims and brocades)", **Arış**. no. 2, vol. 1, pp. 38-51
66. Böhmer, H. & Karadag, R. (1996): "Dye analyses of Ottoman brocades and velvets from the Topkapi Museum Istanbul and other silk textiles", **International Conference on oriental carpets**, vol. 7, pp. 69-78
67. Karadag, R., Dölen, E. & Savcı, H. (1994): "Organik Çözücü-Su Sistemlerinde AgCl ve Ag₂SO₄ Tuzlarının Disosiyasyon Sabitlerinin Tayini (Determination of dissociation constants of AgCl ve Ag₂SO₄ in organic solvent-water systems)", **Mar.Üniv. Ecz. Der.** no. 2, vol. 10, pp. 105-113

Symposium and Congress

1. Karadag Recep and Guzel Torgan Emine (2019). Comparison of Archival Documents and Analysis Results in the Materials of Ottoman Period Palace Fabrics. **DHA38 –Dyes in History and Archaeology**.
2. Karadag Recep and Guzel Torgan Emine (2019). Characterization of 19th Century Istanbul Kandilli Yazmas (hand-painted textiles) **DHA38 –Dyes in History and Archaeology**.
3. Karadağ Recep (2018). Developed A Natural Dyeing Method for Obtaining Turkey Red Color. **The Fiber Society Spring 2018 Conference**.
4. Karadağ Recep, Torgan Emine (2018). Dyeing of Organic Cotton Fabrics Using Madder and Gallnut Examined with Different Analysis Methods. **The 4th International Conference on Engineering and Natural Sciences (ICENS 2018)**.

5. Torgan Emine, **Karadağ Recep** (2018). Multidirectional Investigation of Organic Cotton Fabrics dyed with Gal Oak. *8th International Istanbul Conference on Evolution Technical Textile* (ETT2018).
6. **Karadağ Recep**, Torgan Emine (2018). Reproduction of Ottoman Placa Fabrics Using Natural Dyes. *8th International Istanbul Conference on Evolution Technical Textile* (ETT2018).
7. **Karadağ Recep** (2017). Non-Destructive and Micro Analysis Methods for Restoration of Carpets in National Azerbaijan History Museum. *The 5th International Symposium on Azerbaijan*.
8. Torgan Emine, **Karadağ Recep**, Akyol Ali Akın, Ergürer Hasan Ertuğ (2017). Philadelphia Antik Kenti Tekstil Buluntusunun Karakterizasyonu. *38. Uluslararası Kazı, Araştırma ve Arkeometri Sempozyumu*(32), 167-178.
9. Torgan Emine, Akyol Ali Akın, **Karadağ Recep**, İren Kaan (2017). Daskleion Tekstil Buluntusunun Arkeometrik İncelenmesi ve Diğer Kazılarda Bulunan Tekstil Numuneleri ile karşılaştırılması. *33. Arkeometri Sonuçları Toplantısı*, 33(1).
10. **Karadağ Recep**, Torgan Emine (2017). Farklı Dönemlere ve materyallere ait Arkeolojik Eserlerin Enstrümental Analiz Yöntemleri ile İncelenmesi. *33. Arkeometri Sonuçları Toplantısı*, 33(2).
11. Emine Torgan, **Karadağ Recep** (2017). Osmanlı Kemhalarının Yeniden Üretimleri ve Doğal Boyaların Önemi. *2. Uluslararası akdeniz sanat sempozyumu*.
12. Torgan Emine, **Karadağ Recep** (2017). “Doğal Boyaların Günümüz Tekstillerinde Kullanımı ve Sürdürülebilirliği: Armaggan Koleksiyonu. *2. Uluslararası Doğal Boya sempozyumu*.
13. **Karadağ Recep** (2016). Resin Analysis of the Yenikapı Byzantine Era Shipwreck. *Art and Archaeology* 2016.
14. **KARADAĞ RECEP** (2016). Resin Analysis and Characterization in the Yenikapı Byzantine Era Shipwrecks. *Conference on Cultural Heritage and New Technologies*.
15. Torgan Emine, **Karadağ Recep** (2016). Multidirectional investigation of organic cotton fabrics dyed with Anatolian buckthorn and gallnut by historical recipes. *DHA 35*.
16. Torgan Emine, Alkan Rezan, **Karadağ Recep** (2016). Antifungal activity and HPLC analyses of silk fabrics dyed with madder and gallnut. *DHA 35*.
17. **Karadağ Recep** (2016). A natural dyeing method for obtaining Turkey red color. *DHA 35*.
18. **Karadağ Recep** (2016). Sustainability of Natural Dyes Nowadays. *IFATCC 2016*.
19. Erkan Gökhan, Avcı Berrak Buket, Torgan Emine, **Karadağ Recep** (2016). The Investigation of Possible use of Olive Oil Production wastes in wool Dyeing. *IFATCC*.

20. Torgan Emine, **Karadağ Recep**, Akyol Ali Akın (2016). Delphia Antik Kenti Tekstil Buluntusunun Karakterizasyonu. **38. Uluslararası Kazı, araştırma ve Arkeometri Sempozyumu.**
21. Emine Torgan, **Karadağ Recep**, Akyol Ali Akın, Ergürer Hasan Ertuğ (2016). Philadelphia Antik Kenti Tekstil Buluntusunun Karakterizasyonu. **39. Uluslararası Kazı, Araştırma ve Arkeometri Sempozyumu.**
22. **Karadağ Recep**, Torgan Emine (2016). Arkeolojik ve Tarihi Eser Analiz Yöntemleri. **38. Uluslararası Kazı, Kazı Araştırma ve Arkeometri Sempozyumu.**
23. **Karadağ Recep**, (2016). Non Destructive and Micro Analytical Methods in the Restoration of Textile Cultural Heritage. **VI. International Turkic Art, History and Folklore Congress Art Activities.**
24. Özer Meycan Lale, **Karadağ Recep**, Torgan Emine (2016). Investigation of Colourimetric And Fastness Properties of Silk Fabrics Dyed with Natural Dye Plant Helichrysum Arenarium. **Bezce.**
25. **Karadağ Recep**, Emine Torgan (2015). The Natural Dyes in Sustainable Reflect the Traces of the Past. **International Textiles and Costume Congress.**
26. **Karadağ Recep**, Emine Torgan (2015). Advantages and Important of Natural Dyes in the Restoration of Textile Cultural Heritage. **Green Conservation of Cultural Heritage.**
27. Alkan Rezan, Emine Torgan, **Karadağ Recep** (2015). Antimicrobial activity of dyed silk fabrics with madder and gall oak. **Dyes in History & Archaeology 34.**
28. **Karadağ Recep**, Emine Torgan (2015). Dye and metal thread analyses of some tomb covers in Istanbul Fatih Mosque Complex. **Dyes in History & Archaeology 34.**
29. **Karadağ Recep**, Yıldız Yusuf (2015). Characterization of Dyes metal threads and silk yarns from 16 18th Century Ottoman Silk Brocades. **Textiles of The Silk Road. Design and Decorative Techniques – from Far East to Europe 4.**
30. Emine Torgan, Atilla Alkan, **Karadağ Recep** (2015). 16 -19. Yüzyıla Ait Osmanlı Sultan Kaftanlarındaki Metallerin SEM EDX ile Karakterizasyonu. **22. Elektron Mikroskopi Kongresi (EMK 2015).**
31. Şahinbaşkan Burcu, **Karadağ Recep**, Emine Torgan (2015). Conventional Dyeing of Silk Fabrics With Natural Dye Extracted From Dactylopius coccus Costa and Quercus infectoria Olivier. **15th Autex World Textile Conference.**
32. **Karadağ Recep** (2015). Sustainability and Awareness with Natural Dyes in Textile. **15th Autex World Textile Conference.**
33. Şahinbaşkan Burcu, **Karadağ Recep**, Emine Torgan (2015). Dyeing Properties of Silk Fabric with Dactylopius Coccus Costa and Quercus Infectoria Olivier. **1. International Conference on Engineering and Natural Sciences.**

34. Torgan Emine, **Karadağ Recep** (2015). Tahribatsız ve mikro analiz yöntemleri ile arkeolojik eserlerin karakterizasyonu. **37. uluslararası kazı, araştırma ve arkeometri sonuçları**,
35. **Karadağ Recep** (2014). Some Non Destructive and Micro Analytical Methods for the Conservation on Textiles from Cultural Heritage. **International Conference on Cultural Heritage and New Technologies**.
36. Torgan Emine, **Karadağ Recep**, Aliyev Vali, Mahmadova Aida, Khalilli Fariz (2014). Charecterization by SEM EDX of the Srone Samples in Azerbaijan Excavations. **YOCOCU 2014**, 1(1), 443-456.
37. **Karadağ Recep**, Torgan Emine (2014). Reusing of natural dyes according to the analyses of historical textiles. **Textiles and Dtes in the Mediterranean World Vth Purpureae Vestes**.
38. **Karadağ, R.** & Torgan, E. (2013). "Non destructive and micro analysis methods for restoration of carpts an kilims in Azerbaijan History Museum" **The International Conference: The problems of restoration, conservation and preserving of the monuments of material culture**. Baku, Azarbaycan
39. Akyol, A. A., Torgan, E., İren, K. & **Karadag, R.** (2013): "Organic lake pigment analysis of Koru Tumulus at Daskyleion in the Persian period", **DHA32 Dyes in History and Archaeology**, La Rochelle, Frence
40. Torgan, E., Altintepe, B. & **Karadag, R.** (2013): "Silk dyeing and lake pigments obtaining from *Helichrysum arenarium* and their analysis", **DHA32 Dyes in History and Archaeology**, La Rochelle, Frence
41. **Karadag, R.**, Torgan, E. & Dağcı, K. (2013): "Investigation of historical textiles non-destructive and micro analysis methods", **International Istanbul Historical Peninsula Symposium ISTYAM**, Istanbul, Turkey
42. **Karadag, R.** (2013): "In the Sultan's Studios: Recreating Ottoman Textiles", **Turkish Art and Cultural Lecture Series**, The Textile Museum. Washington DC, USA
43. **Karadag, R.** (2013): "Doğal Boyamaclıda Tarihin Tekerrürü (Bringing back History in Natural Dyeing)", **Abant İzzet Baysal University, Bolu Folk Culture Research and Application Centre (BAMER)**, Bolu, Turkey
44. **Karadag, R.**, Arca, S. A. & Torgan, E. (2013): "Periodic comparasion of two caftans by non-destructive and micro analysis methods in Topkapi Place Museum", **The 9th International Conference for the History of chemistry**, Uppsala, Sweden

45. **Karadag, R.** (2013): *“Non-destructive Micro-analytical Methods and their Application to the Conservations of Textiles from Cultural Heritage”*, **5th Thematic School on Conservation Science Solutions to Questions of our Cultural Heritage by Physical and Chemical Methods in Theory and Practice**, Vienna, Austria
46. **Karadag, R.** (2012): *“Project of Restoration and Conservation in Topkapi Place Museum”*, **Exchange for a challenge in higher education for restoration, conservation and risk management of works of art**, Kocaeli, Turkey
47. **Karadag, R.**, Kahraman, N., Torgan, E. & Oraltay, G. (2012): *“Characterization of the Objects in Historical Textiles in Favour of Restoration by Multi-Analytical Techniques”*, **2nd International Congress, Chemistry for Cultural Heritage**, Istanbul, Turkey
48. **Karadag, R.**, Genç, U., Ekinci, Ş., Başsarı, A., Görgülü, M., Tepkeç, F., Torgan, E. & Dağcı, K. (2012): *“ Interdisciplinary Studies for Investigations of the Historical Objects”*, **2nd International Congress, Chemistry for Cultural Heritage**, Istanbul, Turkey
49. **Karadag, R.** (2012): *“Characterization of the Historical Textiles in Favour of Restoration by Multi-Analytical Techniques”*, **6th General Intensive School on Conservation Science**, Evore, Portugal
50. **Karadag, R.** (2012): *“Analyses of Dye, Weaving and Metal Thread in Ottoman Silk Brocades and Their Reproduction”*, **Textile Society of America 13th Biennial Symposium**, Washington DC, US
51. **Karadag, R.**, Torgan, E. & Puchinger, L. (2012): *“Dyestuff, metal and technical analyses of some historical silk objects from Topkapi Palace Museum”*, **DHA31 Dyes in History and Archaeology**, Antwerp, Belgium
52. Erkan, G., Aydın, C., Torgan, E. & **Karadag, R.** (2012): *“Dyeing of silk fabrics with madder (Rubia tinctorum L.) and their analyses”*, **DHA31 Dyes in History and Archaeology**, Antwerp, Belgium
53. **Karadag, R.**, Deveoglu, O. & Taskopru, T. (2011): *“Dyestuff and Metal Analysis of some 16th Century Ottoman Silk Brocades by RP-HPLC-DAD and FESEM-EDAX”*, **5th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin"**, Istanbul, Turkey

54. **Karadag, R.**, Arca, S., Torgan, E. & Dagci, K. (2011): "*Project of Restoration and Conservation of Sultan Costumes in Topkapi Place Museum*", **5th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin"**, Istanbul, Turkey
55. Deveoglu, O., Çakmakçı, E., Muhammed, A., Fouad, A. & **Karadag, R.**, (2011): "*An investigation on pigments obtained from thyme plant*", **International Conference "Medicinal and aromatic plants in generating of new values in 21th century"**, Sarajevo, Bosna-Hersek
56. Deveoğlu, O., Şahinbaşkan, B. Y., Torgan, E. & **Karadag, R.** (2011): "*Examination on RP-HPLC-DAD colour fastness properties of dyed silk fabrics with madder (*Rubia tinctorum* L.) and Wallon oak (*Quercus ithaburensis Decaisne*)*", **Dyes in History and Archaeology 30**, Darby, England
57. Deveoğlu, O., şahinbakan, B. Y., Torgan, E. & **Karadag, R.** (2011): "*Investigation of dyeing properties of silk fibers dyed by weld (*Reseda luteola* L.) and wallon oak (*Quercus ithaburensis Decaisne*)*", **Dyes in History and Archaeology 30**, Darby, England
58. Deveoğlu, O., Torgan, E. & **Karadag, R.** (2011): "*Analysis by Liquid Chromatography of Lake Pigments Prepared with Mordant Metals from European Buckthorn (*Rhamnus cathartica* L.)*", **Analytical Chemistry**, Erzurum, Turkey
59. **Karadag, R.** (2011): "*Analysis of some 16th century Ottoman silk brocades and their reproduction*", **ISEND 2011 Europe "International symposium and exhibition on natural dyes"**, La Rochelle, France
60. **Karadag, R.** (2011): "*Comperision of dye analysis of historical textile with their new reproductions*", **5th Summer School Conservation Science**, Istanbul, Turkey
61. **Karadag, R.**, Arça, S. A., Torgan, E. & Dağcı, K. (2011): "*Topkapı Sarayı Müzesi Padişah Elbiselerinin Restorasyon ve Konservasyonunda Tahribatsız-Mikro Analiz Yöntemlerinin Uygulanması Projesi (Restoration and conservation project of textiles in Topkapi Place museum)*", **20. Müze Çalışmaları ve Kurtarma Kazıları Sempozyumu**, Bodrum-Muğla, Turkey

62. Deveođlu, O., Torgan, E., Tařkoprü, T. & Karadag, R. (2011): “SEM-EDX / HPLC analysis and production of natural pigments from *Quercus ithaburensis* with Al (III), Fe (II) and Sn (II) metals”, **6th CMAPSEEC (6th Conference on Aromatic and Medicinal Plants of Southeast European Countries)**, Bosna, Bosna-Hersek
63. řahsuvarođlu, A., Ayaz, S. & Karadag, R. (2011): “Datiscetin (2', 3, 5, 7-Tetrahidroksiflavon)'in alüminyum(III) ve demir(II) ile oluřturduđu komplekslerin kararlılık sabitlerinin potansiyometrik ve spektrofotometrik olarak tayini (The Determination of Stability Constants of Datiscetin (2', 3, 5, 7-Tetrahidroksiflavon) Aluminium(III) and Iron(III) Complexes by Potentiometric and Spectrophotometric”, **25th National Chemistry Congress with International Participation**, Erzurum, Turkey
64. Karadag, R. (2011): “Dye analysis and reproduction of 16th Century Ottoman Brocades”, **Turkish Art and Cultural Lecture Series**, Istanbul, Turkey
65. Karadag, R. (2011): “16.Yüzyıl Osmanlı Kumařlarının Boya Analizi ve Yeniden Üretimleri (Reproduction of 16th Century Ottoman Brocades)”, **Turkish Art and Cultural Lecture Series**, Istanbul, Turkey
66. Karadag, R., Deveođlu, O. & Torgan, E. (2010): “Dyestuff analysis of hemp- dyed wool and hemp (*Datisca cannabina* L.) by HPLC”, **IMPS-3 : Third international meeting on pharmacy and pharmaceutical sciences**", Istanbul, Turkey
67. Deveođlu, O., Torgan, E. & Karadag, R. (2010): “Cehri (*Rhamnus petiolaris*) boya bitkisi ile boyanmış yün örneđinin sıvı kromatografisi analizi (HPLC analysis of dyed wool with *Rhamnus petiolaris*)”, **24th National Chemistry Congress**, Zonguldak, Turkey
68. Deveođlu, O., Tařkoprü, T. & Karadag, R. (2010): “SEM-EDX/HPLC analysis and production of natural pigments from *Quercus ithaburensis* with AL (III), Fe (II) and Sn (II) metals”, **6th CMAPSEEC "6th Conference on Aromatic and Medicinal Plants of Southeast European Countries)**, Antalya, Turkey
69. Karadag, R. & Yurdun, T. (2010): “LC-DAD Dyestuff Analysis on Luxurious Tent of Ottoman Sultan (Abdulhamid II) from the Military Museum –Istanbul”, **1st International Congress Chemistry for Cultural Heritage (ChemCH)**, Ravenna, Italy

70. Karadag, R., Yurdun, T. & Torgan, E. (2010): "*Identification of Natural Dyes in 16th century Ottoman Silk Brocades by HPLC with Diode Array Detection*", **1st International Congress Chemistry for Cultural Heritage (ChemCH)**, Ravenna, Italy
71. Torgan, E. & Karadag, R. (2010): "*Dyestuffs Examination of Quercus infectoria and Quercus ithaburensis by the Fermentation*", **Dyes in History and Archaeology 29**, Lisbon, a. Portugal
72. Karadag, R. (2010): "*Dyes in historic textiles – analysis and recreation*", **4th Summer School, Instrumental Techniques for the Conservation of Cultural Heritage Summer School**, Teruel, Spain
73. Karadag, R. (2010): "*TCF natural Dyes Research and Development Laboratory with World's Largest Plants Collection in Istanbul*", **Turkish Art and Cultural Lecture Series**, Istanbul, Turkey
74. Karadag, R. (2010): "*Geçmişten Günümüze Doğal Boyamacılık (Natural dyeing: from past to nowadays)*", **Abant İzzet Baysal University, Bolu Folk Culture Research and Application Centre (BAMER)**, Bolu, Turkey
75. Karadag, R. (2009): "*Doğal Boyamacılık(natural dye sources)*", **Merkezefendi Traditional Medicine Society**, Istanbul, Turkey
76. Karadag, R. (2009): "*Analysis by liquid chromatography on natural pigments from cocchineal (Dactylopius coccus Costa)*", **8th International Symposium on the Chemistry of Natural Compounds, 8SCNC**, Eskisehir, Turkey
77. Karadag, R. (2009): "*Analytical methods used for the natural dye analysis of the historical textile objects*", **Chemistry and Culture Euro Mediterranean Cooperation in Research and Education**, Thessaloniki, Greece
78. Khalilli, F., Ibrahimov, B. , Yurdun, T. & Karadag, R. (2009): "*Dyestuff analysis of the 4th–7th- and 13th–14th-century archaeological textiles from the National Museum of History of Azerbaijan*", **28th meeting of Dyes in History and Archaeology**, Poznan, Poland

79. Karadag, R., Cücen, E. & Yurdun, T. (2009): "Formation, HPLC analysis and colour measurement of the natural pigment obtained from weld", **28th meeting of Dyes in History and Archaeology**, Poznan, Poland
80. Abdulova, G., Yurdun,, T. & Karadag, R.(2009): "Dyestuff analysis of the XVIth and XIXth Centuries ethnographic silk textiles from the National Museum of History of Azerbaijan", **28th meeting of Dyes in History and Archaeology**, Poznan, Poland
81. Karadag, R. & Yurdun, T. (2009): "Identification of flavonoids in aerial parts of Weld (*Reseda luteola*) extract, dyed silk and colour measurement", **28th meeting of Dyes in History and Archaeology**, Poznan, Poland
82. Karadag, R., Yurdun, T. & Xəlilli, F. (2009): "Milli Azərbaycan Tarihi Müzesindən sağlanan İslam devri arkeolojik tekstillerin boya analizi (Analysis of archaeological textiles from National History Museum in Azerbaijan)", **National History Museum in Azerbaijan**, Baku, Azerbaijan
83. Puchinger, L., Karadag, R., Gössl, A., Sauter, F. & Varella, E. (2009): "Results of Optimisation Studies for Madder Dyeing", **28th meeting of Dyes in History and Archaeology**, Poznan, Poland
84. Karadag, R. (2009): "Dye Analysis of Historic Textile Objects by TLC and HPLC", **3rd Residential Summer School on Conservation Science**, Thessaloniki, Greece
85. Karadag, R., L., V., I., K., T., Y., Y, C. & E, D. (2008): "The dyes of a silk brocade of the Ottoman period", **27th meeting of Dyes in History and Archaeology**, Istanbul, Turkey
86. Yurdun, T., Karadag, R. & Dölen, E. (2008): "Determination method for the dye sources of historical dyestuffs", **27th Dyes in History and Archaeology**, Istanbul, Turkey
87. Karslı, S., Yurdun, T., Karadag, R. & Dölen, E. (2008): "Anthraquinones in wool fibres dyed with some *Rubia species*", **27th meeting of Dyes in History and Archaeology**, Istanbul, Turkey

88. Karadag, R., Torgan, E., Yurdun, T. & Savci, H. (2008): "*Production and analysis of the pigment from madder plant (Rubia tinctorum L.)*", **27th meeting of Dyes in History and Archaeology**, Istanbul, Turkey
89. Deveoğlu, O., Karadag, R., Yurdun, T. & Dölen, E. (2008): "*Pigments obtained from buckthorn (Rhamnus petiolaris Bois)*", **27th meeting of Dyes in History and Archaeology**, Istanbul, Turkey
90. Karadag, R. & Dölen, E. (2008): "*Research on natural dyes and dyeing practice in Marmara University workshop*", **Technology and Conservation of Ancient Artworks**, Fez, Morocco
91. Karadag, R., Yurdun, T. & Dölen, E. (2008): "*History of natural organic pigments in the Mediterranean area workshop*", **Technology and Conservation of Ancient Artworks**, Fez, Morocco
92. Karadag, R. & Dölen, E. (2008): "*Identification of natural dyes in historical textiles by liquid chromatography*", **Chemistry and Conservation Science, 2nd Residential Summer School**, Palermo, Italy
93. Erdoğan, G., Karadag, R. & Dölen, E. (2008): "*Aluminium Complex and Dyeing Properties of Apigenin*", **6th Aegean Analytical Chemistry Days**, Denizli, Turkey
94. Karadag, R. (2007): "*Importance of Natural Dyeing in Today's Handicrafts*", **International Symposium of Traditional Arts**, Izmir, Turkey
95. Karadag, R., Yurdun, T. & Dölen, E. (2007): "*Identification of dyestuffs in some seventeenth century silk skullcaps by liquid chromatography with diode array detection in the Topkapi Palace Museum collection*", **26th meeting of Dyes in History and Archaeology**, Vienna, Austria
96. C., C., I., K., S., S., E., V., Karadag, R., E., T., F., S., L., P., Z., A., O., A., R., B., C., C., E., D., G., K., U., W., , A. M. & M., M. (2007): "*Investigation, revival and optimisation of traditional Mediterranean colouring technology for the conservation of the cultural heritage* ", **26th meeting of Dyes in History and Archaeology**, Vienna, Austria

97. **Karadag, R.** (2007): “*Osmanlı Döneminde Sivas Halılarında Kullanılan Boyarmaddeler (Dyes characteristic of Sivas carpets in Ottoman period)*”, **Symposium Sivas during the Ottoman Period**, Sivas, Turkey
98. **Karadag, R.** (2006): “*Doğal Boyamacılığın Tarihsel Serüveni (Adventure of natural dyes)*”, **1st Denizli Handicraft Congress**, Denizli, Turkey
99. Erdoğan, G., **Karadag, R.**, Eler, A. & Dölen, E. (2006): “*Apigenin’in Demir (II) Kompleksinin kararlılık Sabitlerinin Potansiyometrik ve Spektrofotometrik Olarak Tayini (The Determination of Stability Constants of Apigenin Iron(II) Complexes by Potentiometric and Spectrophotometric)*”, **3rd National Analytical Congress**, Çanakkale, Turkey
100. Erdoğan, G., **Karadag, R.**, Bayar, M. & Dölen, E. (2006): “*Naringenin’in Demir (II) Kompleksinin kararlılık Sabitlerinin Potansiyometrik ve Spektrofotometrik Olarak Tayini (Determination of naringenin- Fe²⁺ complexes)*”, **3rd National Analytical Congress**, Çanakkale, Turkey
101. **Karadag, R.** (2006): “*Historical Adventure of Natural Dyeing*”, **European Chemistry Thematic Network, Working Group on Chemistry & Cultural Heritage and** , Aristotle University of Thessaloniki, Greece
102. Karadag, R. (2005): “*Anadolu Türk El Dokumalarında Kullanılan Doğal Boyarmaddeler ve Boyama Yöntemleri (Characteristic of Anatolian Handicraft)*”, VI. International Congress on Turkish Culture, Ankara, Turkey
103. **Karadag, R.** (2005): “*Doğal Boyamacılığın Geçmişi, Günümüzdeki Yeri ve Önemi (The importance of natural dyes from past to nowadays)*” , **Içel Handicrafts and Education Foundation**, Mersin, Turkey
104. **Karadag, R.** (2005): “*Temiz Teknoloji ve Toksik maddeler Konferansı (Clean technology and toxic matter in dyeing)*”, **Turkish Democracy Foundation and Traditional Turkish Handicrafts Foundation**, Ankara, Turkey
105. Erdoğan, G., **Karadag, R.** & Dölen, E. (2004): “*The determination of stability constants mixed-ligand complexes of quercetin and digallic acid with iron (II) and magnesium(II) by potentiometric and spectrophotometric methods*”, **4th Aegean Analytical Chemistry Days**, Aydın, Turkey

106. **Karadag, R.**, Erdoğan, G. & Dölen, E. (2003): *“The determination of Stability Constants of Quercetin (3,3',4',5,7-pentahydroxyflavone) Complexes Aluminium, Calcium, Magnesium and Iron by Potentiometric and Spectrophotometric Methods”*, **2nd Black Sea Basin Conference on Analytical Chemistry**, Istanbul, Turkey
107. **Karadag, R.** & Genç, M. (2003): *“Weaving In Silifke Turkmen”*, **10th International Conference On Oriental Carpets**, Washington DC, USA
108. **Karadag, R.** & Karadağ, E. (2003): *“Major Characteristics Of The Biggest Of Hereke Carpet In The Yıldız Sale Mansion In Terms Of Design- Dyestuffs- Technical Aspects”* , **10th International Conference on Oriental Carpets**, Washington DC, USA
109. **Karadag, R.** (2002): *“Türk Kırmızısı Boyamacılığı (Turkey Red Dyeing)”*, **Çanakale Onsekiz Mart University**, Çanakkale, Turkey
110. **Karadag, R.** (2001): *“Doğal Boyamacılığın Dünü ve Bugünü (Dyeing)”*, **Çanakale Onsekiz Mart University**, Çanakkale, Turkey
111. & Böhmer, H. & **Karadag, R.** (2000): *“New Dye Research on Palmyra Textiles”*, **Dyes in History and Archaeology Dyes in History and Archaeology 19**, Edinburg, England
112. **Karadag, R.** (2000): *“Tarihi tekstillerde saptanan Doğal Boyama Yöntemlerinin Günümüz Tekstillerine Uygulanması (Dyeing methods in historical textiles)”*, **III. National Symposium on Turkish Handicrafts and Approach**, Konya, Turkey
113. **Karadag, R.** & Dölen, E. (1999): *“3', 4', 5, 7 – Tetrahidroksiflavonun (luteolin) Demir ve Alüminyum Komplekslerinin Kararlılık Sabitlerinin Potansiyometrik ve Spektrofotometrik Olarak Tayini [The determination of stability constants complexes of luteolin with iron (II) and aluminium(III) by potentiometric and spectrophotometric methods]”*, **XIIIth National Chemistry Congress**, Samsun, Turkey
114. **Karadag, R.** (1998): *“Bazı Flavonoidlerin Alüminyum ve Demir Komplekslerinin Kararlılık Sabitlerinin İncelenmesi (The determination of stability constants complexes of some flavonoids with aluminium and iron)”*, **XIIth National Chemistry Congress**, Edirne, Turkey

115. **Karadag, R. & Böhmer, H. (1997): “Dye analyses by derivate UV / Vis spectrophotometry”, *Dyes in History and Archaeology* 16, Lyon, France**
116. **Karadag, R. & Dölen, E. (1997): “Arkeolojik Tekstillerde 6,6’- Dibromindigonun Çeşitli Çözünürlüklerle Ekstraksiyonu ve Spektrofotometrik Olarak İncelenmesi; Determination of 6,6’ dibromoindigotin in Archealocial textiles)”, *Xlth National Chemistry Congress*, Van, Turkey**
117. **Böhmer, H. & Karadag, R. (1996): “Dye-Analyses of Ottoman brocades and velvets from the Topkapi Museum, Istanbul, and other silk textiles”, *7th International Conference on Oriental Carpets*, Hamburg-Berlin, Germany**
118. **Böhmer, H. & Karadag, R. (1996): “Dye- Analysis of Palmyra textiles”, *8th International Conference on Oriental Carpets*, Philadelphia, USA**
119. **Karadag, R. & Dölen, E. (1995): “Examination of historical textiles with dyestuff analyses by TLC and spectrophotometry”, *35th IUPAC, Congress*, Istanbul, Turkey**
120. **Karadag, R. & Dölen, E. (1993): “Pamuğun Türk Kırmızısı’na boyanmasında sülfolanmış hint yağının ve tanenin etkisinin incelenmesi (Turkey Red)”, *IXth National Symposium on Chemistry and Chemical Engineering*, Trabzon, Turkey**
121. **Karadag, R. and Dölen, E. (1992): “Determination of dyestuffs of Ararat kermes(*Porophyrophora hameli*) through direct extraction and through the extraction of dye on coloured wool material”, *VIIIth National Symposium on Chemistry and Chemical Engineering*, Istanbul, Turkey**

Projects (International and National)

1. (2010-2012): Analyses project of the carpet, kilim, fabric and archaeological textiles in Azerbaijan National History Museum, TCF(Turkish Cultural Foundation)
2. (2006-2009): sixth frame work programme FP6-2003-INCO-MPC-2 Investigation, Revival and Optimisation of Traditional Mediterranean Colouring Technology for the Conservation of the Cultural Heritage

3. (2011-2012): Experience for change within the cultural heritage sector, EU
4. (1993- 2000): The Dyes on the Silk Road, UNESCO
5. (1995- 1999): Palmyra Textile, DAI , GDAMS , IFAPO, IFEAD
6. (2010- current): Project of Restoration and Conservation of Sultan Costumes in Topkapi Place Museum, TCF
7. (2010-2012): Restoration and Conservation of Seljuk and Usak carpets in the Museum of Turkish and Islamic Arts, TCF
8. (2010- current): Restoration and Conservation of Ottoman flags, Ottoman tents and 20th century Ottoman Army uniforms in Harbiye Military Museum, TCF
9. (2010-2011): Analyses of princes' caftans in Hagia-Sofia Museum, TCF
10. (2010-2012): Analyses of Seljuk carpets and Anatolian Carpets in Konya Ethnographical Museum; TCF
11. (2010-2012): Restoration and Conservation of Mevlana's Caftans in Mevlana Museum, TCF
12. (2011-current): Analyses of 16th - 19th century silk fabrics and clothing in Sadberk Hanim Museum, TCF
13. (2011): Dyestuff analysis project of Hirka-i Serife in Hirka-i Serif Mosque, TCF
14. (2011-2012): Dyes analyses project of carpets and kilims in Sivas - Atatürk and Ethnography Museum, TCF
15. (2012): Dyestuff analysis and restoration project in Vakiflar Carpet- Kilim Museum
16. (2011-current): Elemental and dye analysis of Anatolian carpet and kilim collection in Weaving Museum USA, TCF
17. (2011): Elemental and pigment analysis of art objects, Calligraphy Museum Istanbul, TCF
18. (2001): Masada Textiles, the Hebrew University of Jerusalem, Institute of Archaeology
19. (2002): Project of Carpets Restoration in Blue Mosque, TCF
20. (1994-1997): Historical Research Project of Turkish Brocades, Türkiye Ekonomi Bakanlığı
21. (2011-2012): Elemental and dyestuff analysis of textile art objects in Maritime Museum Istanbul, TCF
22. (2004-2006); Natural Painting Project, Turkish Employment Organisation (İŞKUR), EU
23. (2004-2006): Decorative And Tourist Souvenirs Promotion And Sales Project; Active Labour Market Strategy Programme, New Opportunities Programme, EU
24. (2019-2020): Dyeing Anthracite-Black Colors with Sustainable Antimicrobial and Antifungal Properties in Denim Warp Natural Dyeing. BOSSA TİCARET ve SANAYİ İŞLETMELERİ T. A. Ş

Marmara University Project

- a. FEN-YYP-270605-0154; Natural Dye Project I (Dye Plants)
- b. FEN.YY.073/081004; Natural Dye Project II (Dye Insects)
- c. SOC-DYD-11/210201; Natural Dye Project III(Dye Snails)
- d. SOC-YY-024/141002; Natural Dye Project IV (Western Anatolia)
- e. FEN-D-080212-0028; Natural Dye Project V (Eastern Anatolia)
- f. FEN-D-150513-0191; Periodic comparasion of two caftans by non-destructive and micro analysis methods in Topkapi Place Museum
- g. FEN-C-DRP-210311-0058, Determination of some aluminium-flavonoids complexes
- h. FEN-D-300609-0231; Natural Organic Lake Pigments obtained *Reseda luteola* L. And their analysis
- i. FEN-C-YLP-181208-0289; Natural Organic Lake Pigments obtained *Reseda Luteola* L.
- j. FEN-C-YLP-181208-0288; Natural Organic Lake Pigments obtained *Quercus infectoria* Oliver

- k. FEN-C-YLP-181208-0287; Natural Organic Lake Pigments obtained *Carthamus tinctorius* L.
- l. FEN-YYP-081004-0156; Distribution of natural dye plants in Turkey
- m. (1990- current): Natural Dye Research and Development (DOBAG)

Patent:

TR 2015 00638 B "A NATURAL DYEING METHOD FOR OBTAINING TURKEY RED COLOUR"

Certificates:

1. Laboratory Internal Audit TS EN ISO/IEC 17025
2. Uncertainty of Measurement TS EN ISO/IEC 17025
3. Method Validation TS EN ISO/IEC 17025

Course:

1. Scientific Techniques in Museum, Scientific Techniques in Museum, International Atomic Energy Agency (IAEA)/ The Museum of Anatolian Civilizations.
2. Application of Nuclear Analytical Techniques in the field of Cultural Heritage, Application of Nuclear Analytical Techniques in the field of Cultural Heritage, International Atomic Energy Agency (IAEA)