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ACADEMICAL DEGREES

February, 1993: Professor, Istanbul Technical University, Construction Sciences.
November, 1987: Associate Professor, Istanbul Technical University, Building Physics.
September, 1983: Doctor, Istanbul Technical University, Building Physics.
June, 1979: Master of Science, Istanbul Technical University, Construction Technologies.
June, 1977: Architect, Istanbul Technical University.

INTERNATIONAL EXPERIENCES

1984-1985 : American Department of Energy NLBL Laboratory, Research Fellow
1989-1991 : Technical University of Denmark, NATO Research Project Coordinator
1999-2001 : Eastern Mediterranean University in North Cyprus Turkish Republic,
Faculty Member

2011- : REHVA (Federation of European Heating, Ventilation and Air-conditioning Association) TASK FORCE Member for Reference Buildings For energy performance and cost-optimal analysis.

FIELDS OF EXPERTISE

Building Energy Performance, Building Energy Simulations, Energy Efficient/Ecologic Building Design, Renewable Energy Use in Buildings, Smart Buildings, Climatic Comfort in Buildings, Cost Optimum Nearly Zero Energy Buildings, Condensation Control in Building Envelope

APPLICATION FIELDS

Zero carbon/zero energy green building design, detailed energy modeling in accordance with BREEAM and LEED green building certification systems, energy efficient-green building design consultancy, building energy certification.

ADVISED THESES

Master Degree Theses

1994: Passive Fire Control Parameters in Buildings and Evaluation of Regulations, Mustafa OZGUNLER, Istanbul Technical University, Graduate School of Science and Technology.

1995 : Evaluation of Building Envelope According to Operation Type of Heating System in Terms of Comfort and Energy Saving, Gulden MANIOGLU, Istanbul Technical University, Graduate School of Science and Technology.

1995 : Recognition and Solution of Moisture Problem in Historical Stone Buildings, Demet KUZUIMAMLAR, Istanbul Technical University, Graduate School of Science and Technology.

1995 : An Example Model to Heat Loss Analysis of Building Envelope in Terms of Building Form, Semiha SELAMET, Istanbul Technical University, Graduate School of Science and Technology.

1997 : Proposal Development Concerning Solar Energy Usage in Existing Buildings, Bahadir BORAND, Istanbul Technical University, Graduate School of Science and Technology.

1997 : Building Envelope Selection Depending on Energy Saving, Thermal Comfort and Construction Cost, Mahmut Oguz BAYAZIT, Istanbul Technical University, Graduate School of Science and Technology.

2003 : Energy Efficient Improvement of Buildings by Trombe Wall Usage, Basak KUNDAKCI, Istanbul Technical University, Graduate School of Science and Technology.

2005 : A new Approach to Calculation of Heat Loss of Double Skin Facades, Ferit Cetintas, Istanbul Technical University, Graduate School of Science and Technology.

2005 : Communal Energy Management, Michael Sohmer, Stuttgart University, Sustainable Energy Competence Program, (Co-Advisor is Prof. Ursula Eicker).

2006 : An Approach to Passive Solar Intelligent Building Design, Istanbul Technical University, Energy Institute, Energy Science and Technology Master Program.

2006 : Design Principles for Hot and Dry Climatic Zones, Ozlem Koca, Istanbul Technical University, Graduate School of Science and Technology.

2006 : Evaluation of Energy Saving Standards of Turkey, Ipek Osanmaz, Istanbul Technical University, Energy Institute, Energy Science and Technology Master Program.

2006 : Energy Efficiency of Traditional and Modern Façade Systems , Nantia EFTHYMIU, Istanbul Technical University, Graduate School of Science and Technology.

2006 : Smart Building Evaluation Methods, Olcay OGUZ, Istanbul Technical University, Graduate School of Science and Technology.

2007 : Certification of Office Buildings, Yade DORBЕК, Istanbul Technical University, Graduate School of Science Engineering and Technology.

2007 : Energy Efficiency of Atria Buildings, Ayse Miray GEMI, Istanbul Technical University, Graduate School of Science and Technology.

2008 : Energy Efficient renovation of School Buildings in Turkey, Ozlem Zeybek, Istanbul Technical University, Graduate School of Science and Technology.

2008 : Energy Efficiency of PV Application to Buildings, Deniz Erdogan, Istanbul Technical University, Graduate School of Science and Technology.

2008 : Thermal Evaluation of Different Types of Shading Devices, Gulcin Yuksel, Istanbul Technical University, Graduate School of Science and Technology.

2008 : Business Model for Energy Efficient Buildings, Filiz Ivriz, Istanbul Technical University, Graduate School of Science and Technology.

2010 : Building Energy Certification Methodologies, Ece KALAYCIOĞLU, Istanbul Technical University, Graduate School of Science Engineering and Technology.

2010 : Assumptions of Boundary Conditions for Energy Certification of Existing Buildings, Burcu Cigdem CELIK, Istanbul Technical University, Graduate School of Science and Technology.

2010 : Energy Performance Evaluation of Hotel Buildings with Building Energy Performance Calculation Method (BEP-tr), Merve ATMACA, Istanbul Technical University, Graduate School of Science and Technology.

2011 : Investigation of BREEAM and LEED Examples for Material Category of The Coming Turkish Green Building Assessment System, Bilge KOBAS, Istanbul Technical University, Graduate School of Science and Technology.

2011 : Comparative Analysis of Dynamic and Simplified Energy Performance Methods for Hospital Buildings, Gozde GALI, Istanbul Technical University, Graduate School of Science and Technology.

2011 : Material Selection in Green Building Certification, Katya KAYA, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Green Building Certification Methods, Begum GORGUN, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Implementation Feasibility of Green Building Certification Methods to Turkey, Elif Gizem TELLI, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Problems of Complex Buildings in Energy Certification, Esra CAN, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Comparison of Turkish and German Systems in Energy Certification, Mine KURT, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Application of Renewable Energy Technologies in Buildings, Esra ELVAN Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Sustainability and Architecture, Osman KURAN Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Implementation Feasibility of Energy Certification Systems to Iran, Arash Moradi, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Effect of Mechanical Systems in Building Energy Certification, Erhan ENGIN, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2012 : Calculation of Cost Optimal Levels of Minimum Energy Performance Requirements for Office Building Retrofits, Neşe GANIÇ, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü.

2013 : An Approach for Energy Efficiency and Sustainability in Emergency Architecture: Evaluation Of Post-Disaster Shelters in Turkey, Santiago BRUSADIN, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü.

2013 : Building Performance and Energy Efficiency of Green Certified Buildings: Case Study in Turkey And in The Netherlands, Özden DEMİR, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü.

2013 : Calculation of Cost Optimum Levels of Minimum Energy Performance Requirements for Office Building Retrofits, Silvia QUANTARA, Torino Politeknik.

PhD Theses

2002 : An Approach to Specify Operation Type of Building Envelope and Heating System Depending on The Life-Cycle Cost, Gulden MANIOĞLU, İstanbul Technical University, Graduate School of Science and Technology.

2003 : Definition of Escape Routes Geometry as a Function of Gas and Smoke Spread, Mustafa OZGUNLER, İstanbul Technical University, Graduate School of Science and Technology.

2003 : Specification of Safe Distance to Prevent Spread of Fire by Radiation Between Buildings, Nuri SERTESER, İstanbul Technical University, Graduate School of Science and Technology.

2007 : Energy Supply and Demand Optimization for Buildings, Meltem BAYRAKTAR, İstanbul Technical University, Graduate School of Science and Technology and Torino Politeknik Energy Department, continuing.

2008 : Natural Ventilation Strategies for Energy Saving in Cooling and Ventilation of Office Towers in İstanbul, Tobias SCHULZE, İstanbul Technical University, Graduate School of Science and Technology, continuing.

2010 : Energy and Exergy Analysis of PV/T Trombe Wall, Başak KUNDAKCI, Ege University Solar Energy Institute.

2011 : Cost Optimum Energy Retrofit of Buildings, Touraj ASHRAFIAN, İstanbul Technical University, Graduate School of Science and Technology, continuing.

2011 : Life Cycle Cost and Energy Efficiency for Buildings, K. Ferit ÇETİNTAŞ, İstanbul Technical University, Graduate School of Science and Technology, continuing.

2012 : Nearly Zero Energy Buildings for Turkey, Neşe GANIÇ, İstanbul Technical University, Graduate School of Science and Technology, continuing.

2012 : Reference Values of Complex Buildings for Cost Optimum Energy Efficiency, Güzde GALİ, İstanbul Technical University, Graduate School of Science and Technology,

continuing.

2012 : Reference Values of Mechanical Systems for Cost Optimum Energy Efficiency, Alpay AKGÜÇ, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2012 : Façade Integrated Renewable Systems, Ece KALAYCIOĞLU, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2012 : Building Parameters Sensitivity Analysis for Cost Optimal Energy Efficiency, Burcu Ç. ÇELİK, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2012 : Building Energy Efficiency for Hotels, Merve ATMACA, Istanbul Technical University, Graduate School of Science and Technology, continuing.

2013 : Türkiye Koşullarına Uygun Yeşil Bina Sertifika Sistemi Oluşturulması, Aylin ÖZKAN, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, devam ediyor.

AWARDS AND SCHOLARSHIPS

1972-1977	: Turkish Education Foundation
1982	: DAAD (Deutsche Akademiker Austauschdienst)
1983	: TÜBİTAK (The Scientific and Technological Research Council of Turkey)
1986	: A.I.D. (Agency for International Development)
1986	: British Council
1987	: TÜBİTAK (The Scientific and Technological Research Council of Turkey)
1987	: Indoor Air'87 Organization
1987	: NATO Scientific Affairs Division
1989	: CSTB (Centre Scientifique Technique du Batiment)
1995	: NATO, Scientific Affairs Division
1996	: Indoor Air'96 Organization

MAIN PUBLICATIONS

Articles:

1. Adaptation of the Cost Optimal Level Calculation Method of Directive 2010/31/EU Considering the Influence of Turkish National Factors, Applied Energy (with Neşe Ganiç). Accepted in 2014.

2. An approach for energy modeling of a building integrated photovoltaic thermal (BIPV) Trombe wall system Energy and Buildings, (with B. Kundakci Koyunbaba, K. Ülgen), Aralık 2013.
3. The comparison of single-glass, double-glass and building integrated photovoltaic Trombe wall system applied to a test room in Izmir, Architectural Science Review, Vol 55, No.2, p.1-7, 2012 (with B. Kundakci Koyunbaba).
4. The comparison of Trombe wall systems with single glass, double glass and PV panels, Renewable Energy, Accepted for The Press, Vol. 45, No. 9, p. 111-118, 2012 (with B. Kundakci Koyunbaba).
5. An approach for energy modeling of a building integrated photovoltaic thermal (BIPV) Trombe wall system, Energy and Buildings, Accepted for The Press, 2011, (with B. Kundakci Koyunbaba).
6. Net Energy Calculation with EN 13790 and BEP-TR, TSE Journal, April 2010 (in Turkish).
7. Energy Efficiency and Financing in Buildings, IMSAD Magazine, June 2010 (in Turkish).
8. Energy Modeling for Energy Efficiency in Buildings and for Green Building Certification, EKOYAPI Magazine, July 2010 (in Turkish).
9. Energy Performance and Comfort Level Evaluation of an Office Building in Istanbul through Façade Design and Lighting Control, ASHRAE, HVAC&R Journal, in Printing (with Meltem BAYRAKTAR ve Burcu C. CELIK).
10. Energy efficient design strategies in the hot dry climatic zone of Turkiye, Building and Environment, Vol. 43, No.7, s. 1301-1309, July 2008, (with G. Manioglu).
11. An Approach For Energy Conscious Renovation of Residential Buildings in Istanbul by Trombe Wall System, Building and Environment, , Vol.43, No.4, April 2008, pp. 508-517 (with B. Kundakci).
12. An Approach for Energy Conscious Renovation of Residential Buildings in Istanbul and Erzurum by Trombe Wall System, Architectural Science Review, Vol.50, No.4, December 2007, (with B.Kundakci).
13. Evaluation of Energy Efficient Design Strategies for Different Climatic Zones of Turkey: Comparison of thermal performance of buildings in temperate humid and hot dry climate, Energy and Building, Vol.39, No.3, March, 2007, pp.306-316.

14. Intelligent Buildings and Renewable Energy, Journal of Energy Technologies and Mechanical Installations, April 2006, No.124, pp.168-179.
15. Relation Between Building Envelope and Operation Period of Heating System, Architectural Science Review, 2006, Vol. 49.2, pp. 183-188 (with G. Manioglu).
16. Economic Evaluation of the Building Envelope and Operation Period of Heating System in Terms of Thermal Comfort, Energy and Building, March 2006, pp.266-272 (with G. Manioglu).
17. Double Skin Façade's Effect on Heat Loss of Office Buildings in Istanbul, Energy and Building, July 2005, pp. 691-697(with F. Cetintas).
18. Determination of Safe Boundary Distance for Preventing fire Spread by Radiation Transfer, ITU Magazine, Vol.4, No.1, pp.59, March 2005 (with N. Serteser, in Turkish).
19. A Method Proposal for Determination of the Effect of Smoke Curtains on Smoke Movement in Fire Escape Routes, ITU Magazine, 2004, (with M.Özgünler, in Turkish).
20. Double Skin Façades, Insaat Dünyasi, No.12, pp. 106-110, 2004 (with F. çetintas).
21. Building Form for Cold Climatic Zones related to Building Envelope from Heating Energy Conservation point of View, Energy and Building, vol.35, pp.383-388, May 2003 (with G.Koçlar).
22. A New Approach for Determination of Optimum Building Envelope and Heating System Operation Period from Heating Energy Conservation and Life Cycle Cost, ITU Magazine, Vol.1, No. 1, , 2002, pp. 21 (with G. Manioglu in Turkish).
23. Condensation Control in the Façade Elements of Turkish Is Bank Head Quarter Building, Izolasyon Dunyasi, No. 44, pp. 89-92, 2003 (with G.Koçlar, in Turkish).
24. The Limit Values for Building Envelope Related to Building Form in Temperate and Cold Climatic Zones, Building and Environment, vol. 37, 2002, pp. 1173-1180 (with G.Koçlar).
25. Evaluation of New Turkish Standard and Regulation Related to Energy Conservation, Yalitim, No.18, 2000, pp.24 (with G. Koçlar, in Turkish).
26. Indoor Climate and Occupants' Response to Indoor Climate in Mass Production Housing, Tesisat, No.13, January-February 1995, pp.66-74 (in Turkish).
27. Determination of Optimum U-Values for Building Envelope, Architectural Science Review, vol.35, No.4, December 1992.

28. Computer Applications in the Evaluation Stage of Design Process, Design and Construction, February 1989, pp. 31-33 (in Turkish).
29. Evaluation of Thermal Performance of Buildings from Thermal Comfort and Energy Conservation Point of View, Doga, Vol.13, No.1, 1989, pp.102-119.
30. Thermal Comfort and Energy Conservation, Alternative Energy Sources VIII-Research and Development, Vol.2, 1989, pp.653-660.
31. The Effect of Settlement Planning on Thermal Performance of Building, Alternative Energy Sources VIII-Research and Development, Vol.2, 1989, pp.1019-1028 (with V.Ok).
32. Evaluation of Built Environment from the Thermal Comfort Viewpoint, ASHRAE Transactions, Vol.93, Part 1, 1987, pp.549-563.
33. Design of Building Envelope as the Component of Passive System, Isi Bilimi ve Teknigi, Vol.10, No.3., 1987, pp.23-29 (with E.Berköz in Turkish).
34. Determination of the Overall Heat Transfer Coefficient of the Building Envelope from Bioclimatic Comfort Viewpoint, Architectural Science Review, Vol.30, No.4, December 1987, pp.117-121 (with E.Berköz).
35. A Mathematical Model for Predicting the Thermal Performance of Building Envelope, Alternative Energy Sources VI-Solar Applications/Waste Energy, Vol.2, 1985, pp.3-14.
36. Evaluating of Building Regulations Related to Energy Conservation and Air Pollution Control in Turkey, Mimarlik, No.1, 1980, pp.17-21 (with E.Berköz, in Turkish).

Papers:

1. Energy Efficient Renovation Measures with Low Investment Cost for Existing Buildings: Methods of Application of such Measures on Buildings in Turkey and Possible Impacts, 49th AiCARR International Conference, February 2014 (with Ashrafian T., Corgnatti S. And Moazzen N.)
2. Application of the cost optimal methodology to two European case studies: an Italian and a Turkish retrofitted existing office building, 49th AiCARR International Conference, February 2014 (with Cristina Becchio, Stefano Paolo Corgnati, Enrico Fabrizio, Neşe Ganiç, Valentina Monetti)

3. Calculation of Cost Optimal Levels of Minimum Energy Performance Requirements for Retrofit Measures on an Exemplar Office Building, 11th REHVA World Congress & 8th International Conference on IAQVEC CLIMA, June 2013 Prague (with Neşe Ganiç and Stefano Paolo Corgnati)
4. Energy Efficient Retrofit of Existing Public Glass Buildings' Façade: Case Study a Building in Istanbul Technical University, 11th REHVA World Congress & 8th International Conference on IAQVEC CLIMA, June 2013 Prague (with Ashrafian T. And Moazzen N.)
5. A simplified calculation methodology for controlled natural ventilation, The 7th Mediterranean Congress of Climatization CLIMAMED, October 2013, Istanbul (with Schulze, T. and Eicker U.)
6. Problems for Energy Certification of Complex Buildings Through Simplified Methods *Gözde Gali and A. Zerrin Yilmaz*, Building Simulation and Optimization, BSO12, September 2012, UK
7. The Samples of Energy Modelling for Energy Efficient Green Building Design in Turkey *Ece Kalaycioglu, A. Zerrin Yilmaz and Alpay Akgüç* Building Simulation and Optimization, BSO12, September 2012, UK
8. Difficulties for building energy certification through a simplified method in Turkey, 5th IBPC- 5th International Building Physics Conference, Kyoto, May 2012.
9. A comparison of energy behavior of a sunspace through EN ISO 13790 methods and dynamic simulation tools, 5th IBPC- 5th International Building Physics Conference, May 2012, Kyoto (with Vincenzo Corrado and Aliche Gorino).
10. Parametric Sensitivity Analysis of Buildings for Heating and Cooling Energy Demand Leading Energy Performance Certification, CLIMAMED VI Mediterranean Congress of Climatization, June 2011, Madrid (with B.C. Celik and S. Corgnati).
11. Evaluation of The Heating and Cooling Energy Demand of Non-residential Buildings with National Calculation Methodology of Turkey, CLIMAMED VI Mediterranean Congress of Climatization, June 2011, Madrid (with M. Atmaca).
12. Evaluation of the Net Energy Demand of a Case Residential Building with National Calculation Methodology of Turkey and EnergyPlus, International Conference for Enhanced Building Operations, September 2011, New York (with M. Atmaca).
13. Effect of Boundary Condition Assumptions on Hospitals' Energy Performance and Certification: Comparison Between Dynamic Energy Simulation and Turkish Energy

Certification Method for a Case Study Building, CLIMAMED VI Mediterranean Congress of Climatization, June 2011, Madrid (with G. Gali and S. Corgnati).

14. Problems for Energy Modeling of Buildings in turkey According to Leed Rating System: A Case Study for an Office Building in Ayvalik, CLIMAMED VI Mediterranean Congress of Climatization, June 2011, Madrid (with E. Kalaycioglu and I. Saka).
15. Heating and Cooling Energy Demand Calculation with Building Energy Performance National Calculation Method – BEP-TR, TESKON2011, April 2011, Izmir (in Turkish).
16. Energy Performance Evaluation of Hotel Buildings with Building Energy Performance Calculation Method (BEP-TR), TESKON2011, April 2011, Izmir (with M. Atmaca in Turkish).
17. Energy Performance Comparison in LEED and BREEAM Assessment Systems, TESKON2011, April 2011, Izmir (with D. Erten in Turkish).
18. Parametric Sensitivity Analysis of Residential Buildings for Heating and Cooling Energy Demand with BEP-TR Method, TESKON2011, April 2011, Izmir (with B.C. Celik and S. Corgnati in Turkish).
19. Building Energy Performance Calculation Method for Non-Residential Buildings – Hospital Example, TESKON2011, April 2011, Izmir (with G. Gali ve S. Corgnati in Turkish).
20. Energy Performance Simulation Tools in Buildings, TTMD 2010, May 2010, Istanbul (in Turkish).
21. Energy Performance and Comfort Level Evaluation of an Office Building in Istanbul through Façade Design and Lighting Control, CLIMA2010, May 2010, Antalya (with M. Bayraktar ve B.C. Celik).
22. Effect of Office Tower Integrated Multifunctional PV systems on Total Greenhouse Gas Emissions and Economical Quantifying in Turkey, CLIMA2010, May 2010, Antalya (with M.Atmaca and T. Schulze).
23. Modeling Energy Efficient Design of a Naturally Ventilated Office Tower in Mild Climate using EnergyPlus, IAQVEC 2010, New York, 2010 (with T. Schulze).
24. Energy Performance and Comfort Level in High Rise and Highly Glased Office Buildings, ICEBO Conference in Kuwait, December 2010 (with M. Bayraktar and M. Perino).
25. Generation of Data Collection and Management Model for Energy and Sustainability

Simulations Through an Example Building, TESKON2009, May 2009, Izmir (with M. Bayraktar and T. Schulze in Turkish).

26. Building Design Strategies for Energy Saving in Turkey's Warm-Humid and Hot-Dry Climatic Zones, TTMD 2008, May 2010, İstanbul (in Turkish).
27. Low Energy Design Strategies in Turkey, PLEA 2008, October 1008, Dublin.
28. Energy Efficient Building Design, TTMD Workshop, December 2008, Eskisehir (in Turkish).
29. Energy Efficiency and Renewable Energy for Buildings, HVAC&R Congress39., December 2008, Belgrad.
30. Energy and Buildings, Symposium on Renewable Energy, October 2007, Izmir.
31. The Importance of Passive Intelligence on Building Energy Conservation, TESKON 2007, October 2007, Izmir (with M. Bayraktar in Turkish).
32. The winter performance evaluation for the energy conscious renovation of a residential building in Erzurum with the application of an unvented Trombe wall system with and without additional mechanical heating system, World Renewable Energy Congress IX and Exhibition, August 2006, Florence.
33. Evaluation Of Thermal Performance of Traditional and Modern Residential Buildings in the Hot Dry Climatic Zone of Turkey, 3rd International Building Physics Conference, August 2006, Montreal.
34. Intelligent Buildings and Renewable Energy, VII. International HVAC+R Technology Symposium, May 2006, Istanbul.
35. Evaluation of Thermal Performance of Gypsum Stabilized Adobe (ALKER) for a School Building in Istanbul, Living in Earthen Cities – kerpic05, July 2005, Istanbul.
36. Sustainable Strategies for Energy Efficient Design in Turkey and Ireland, Congress and Exhibition on Energy Control and Insulation for Sustainable Environment, October 2004, Istanbul (in Turkish).
37. Double Skin Façade's Effect on Heat Loss of Office Buildings in Istanbul, Congress and Exhibition on Energy Control and Insulation for Sustainable Environment, October 2004, Istanbul, (with F.Cetintas in Turkish).
38. An Approach for Energy Conscious Renovation of Residential Buildings in Turkey by Indirect Solar Gain System, VIII. World Renewable Energy Congress, August 2004,

Denver-Colorado, (with Basak Kundakci).

39. Double Skin Façade's Effect on Heat Loss of Office Buildings in Istanbul, VIII. World Renewable Energy Congress, August 2004, Denver-Colorado, (with F. Çetintas).
40. The Effect of Thermal Mass in Energy Efficient Design, VI. International HVAC+R Technology Symposium, May 2004, Istanbul.
41. A Method Proposal for Energy Conscious Renovation of Residential Buildings in Turkey, National Clean Energy Symposium, May 2004, Istanbul, (with Basak Kundakci in Turkish).
42. The Thermal Performance of Building Envelope with the required U-Values in Relation to Building Form", 33rd Congress on Heating, Refrigerating and Air Conditioning, December 2002, Belgrad.
43. Determination of Building Envelope U Value in according to Building Form from Heating Energy Conservation Point of View, World Renewable Energy Congress VI, July, 2000, Brighton, , Elsevier Science Ltd, 3s. 582-585 (with. G. Koçlar Oral).
44. Design Parameters in Buildings Affecting Heating Energy Conservation", Congress on Physical Environmental Control, 1999, Yildiz Technical University Press No.99-004, Istanbul, (with G.Koçlar in Turkish)
45. Relations Between Building Envelope U-Value and Building Form, Indoor Air 99, The 8. Conference on Indoor Air Quality & Climate, Indoor-Air Proceedings, Ađustos 1999, Edinburgh, s. 59-63 (with G. Koçlar Oral and G. Manioglu).
46. A Methodology Proposal for Determination Heat Insulation Value of Building Envelope in Relation to Building Form", Congress on Building Insulation, 1999, Istanbul (with G.Koçlar in Turkish).
47. A New Software for Thermal Evaluation of Buildings, Envirosoft 98 Conference, November 1998, Las Vegas.
48. A Field Study for Thermal Evaluation of New Residential Buildings in Turkey, Indoor Air'96 Conference, July 1996, Nagoya.
49. The Effect of Plan Type and Orientation on Heating Energy Consumption of Buildings, Building Physics Symposium, October 1995, Budapest.
50. Indoor Climate and Thermal Response of Building Occupants, Healthy Buildings'95, September 1995, Milano.

51. Variation of Mean Radiant Temperature and Thermally Comfortable Area in a Room, International Symposium on Radiative Heat Transfer, August 1995, Izmir.
52. Determination of Optimum U-Values for Opaque Components in Accordance With Window Dimensions and Location, Energy Symposium, April 1994, Istanbul.
53. A Research on Indoor Climate and Thermal Response of Building Occupants in Mass Production Housing, Housing Research Symposium, July 1993, Ankara.
54. A Field Study for Thermal Evaluation of New Residential Buildings in Turkey, Indoor Air'93, 6th International Conference, June 1993, Helsinki.
55. Indoor Climate and Thermal Response of Building Occupants, 2nd International Meeting on Energy and Environment Towards the 2000, June 1993, Capri.
56. Computer Programs for Energy Efficient Building Design, Training Course for Energy Efficiency in Building Design, November 1991, Ankara.
57. Optimum Overall Heat Transfer Coefficient for Building Envelope, Clima 2000, September 1989, Sarajevo.
58. A New Regulation Format for Thermal Comfort and Heating Energy Conservation, CIB-11.Congress, June 1989, Paris (with E.Berköz).
59. Evaluation of Buildings from Energy Conservation and Thermal Comfort Point of View, CIB-11.Congress, June 1989, Paris.
60. Analysis of Building Regulations Related to Energy Conservation, Energy Options for the Year 2000, September 1988, Delaware.
61. Thermal Comfort and Room Shape, Healthy Buildings'88, September 1988, Stockholm.
62. Ventilation and Thermal Comfort, CIB-W40 1987 Meeting, September 1987, Boras.
63. Design Principles for Thermally Comfortable Indoor Spaces, Indoor Air'87, August 1987, Berlin .
64. The Thermal Effect of Dimensions of Prefabricated Facade Elements, CIB-W77 1987 Meeting, May 1987, Holzkirchen.
65. A Method of Simulation of Climate for Settlement and Building Design, Building Climatology'87 - 2nd Inter-national Symposium, May 1987, Moscow (with L.Zeren, M.Küçükdogu and V.Ok).

66. Asymmetric Radiant Effect of Window Type, CIB.86 10th Triennial Congress, September 1986, Washington D.C..
67. A Computer Program for Determination of Building Parameters, Seminar on Computer in Design and Construction, April 1986, Istanbul.
68. A Computer Program for Predicting the Thermal Performance of Built Environment, 1st National Symposium on Computer Aided Design, April 1984, Izmir, p.569-584.
69. Use of Computers in Design for Energy Conservation, 2nd International Solar Energy Congress, June 1983, Istanbul, (with L. Zeren).
70. A Settlement Model Based on Energy Conservation, 2nd International Solar Energy Congress, June 1983, Istanbul, (with L. Zeren).
71. Building Façade Design from the Standpoint of Solar Radiation and Air Temperature Control, Proceedings of CIB 8.Congress, 1980, Oslo, (with E. Berköz).
72. Building Envelope Design for Modification of Combining Effect of Air Temperature and Solar Radiation, Proceedings of National Symposium on Solar Energy and Environmental Design, September 1978, Istanbul, (with E. Berköz).

Last Research Studies:

- Determination of Reference Buildings and Methodolgy for Cost Optimal Energy Efficiency Level in Turkey, TÜBİTAK, 2013- continuing.
- Determination of Cost Optimum Energy Efficiency Level and Reference Values for the Renovation of Existing Buildings İTÜ-BAP, 2013- continuing.
- SMART SPACES, Saving Energy in Europe's Public Buildings Using ICT, 7. Framework EU Project, 2012- (going on).
- Reference Buildings for Energy Performances and Cost-Optimal Analysis, İTÜ-EU, 2011 (going on).
- CITYNET-EU Commission Star Project (Energy Management for Cities) EU - FP6 project, December 2010.
- I3CON (Industrialized, Integrated and Intelligent Construction) EU - FP6 project, October 2010.

- Development of Building Energy Performance Calculation Method (BEP-TR) Project, Turkish Ministry of Public Works and Settlement, December 2009 (Turkey).
- Sustainable Strategies for Energy Efficient Design and Construction of Buildings in Turkey and Ireland, 2006.

Research Reports:

Building Energy Performance Calculation Method, BEP-TR, 7 December 2010, Turkish Republic Official Newspaper, (in Turkish).

Determination of Building Envelope U-Value in According to Building Form from Heating Energy Conservation Point of View (with G.Koclar and G.Manioglu). This project is supported by Istanbul Technical University, 1998-1999.

Energy Efficient Building and Settlement Design, (with E.Berköz). This project is supported by TUBITAK (Turkish Scientific and Technical Council), 1992-1995.

Determination of Users' Satisfaction Degree in Mass-product in Housing in Turkey. This project is supported by Istanbul Technical University, 1992-1993.

Evaluation of Thermal Conditions of Residential Buildings in Turkey. This project was supported by the Research Center of Istanbul Tehcnical University, 1988-1990.

Determination of Optimum Building Envelope Alternatives for Different Climatic Regions of Turkey (with E.Berköz). This project was supported by Istanbul Tehcnical University, 1988-1989.

Thermal Comfort in New Residential Buildings in Turkey. This project was supported by Istanbul Technical University, Technical University of Denmark and NATO, 1987-1990.

Evaluation of Thermal Performance of New Residential Buildings. This project was supported by TUBITAK (Turkish Scientific and Technical Research Council), 1987-1988.

Standards for Indoor Spaces of Mass-Production Housing (with N.Bayazit). This project was supported by TUBITAK, 1986-1989.

Thermal Comfort, Energy Conservation and Building Design Relations. This project was supported by Lawrence Berkeley Laboratory, Berkeley-U.S.A, 1984-1985.

A New Settlement Model Based on Energy Conservation in Ankara (with L.Zeren). This

project was supported by Turkish Real Estate Bank, 1981-1982.