

## **Prof. CEM TOPKAYA**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AAZ-9924-2020

ScopusID: 6508017408

Yoksis Researcher ID: 13061

### **Education Information**

Doctorate, University of Texas at Austin, United States Of America 1999 - 2002

Postgraduate, University of Texas at Austin, United States Of America 1997 - 1999

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1993 - 1997

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Behavior of Curved Steel Trapezoidal Box Girders During Construction, University Of Texas At Austin, 2002

Postgraduate, A New Test Method for Determining the Shear Modulus of Elastomeric Bridge Bearings , University Of Texas At Austin, 1999

### **Research Areas**

Civil Engineering, Structure, Steel Structures, Engineering and Technology

### **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2010 - Continues  
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2005 - 2010

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2003 - 2005

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2002 - 2003

## Advising Theses

- TOPKAYA C., Testing of demountable shear connectors, Postgraduate, B.KARAKUŞ(Student), 2022
- TOPKAYA C., Numerical modeling and seismic performance assessment of steel eccentrically braced frames with short and long links, Doctorate, E.MÜGE(Student), 2022
- TOPKAYA C., NUMERICAL INVESTIGATION OF BRACES AND REPLACEABLE LINKS FOR STEEL FRAMES, Doctorate, S.KAZEMZADEH(Student), 2021
- Çelik O. C., Topkaya C., Design Tables for Turkish Structural Steel Code, Postgraduate, Z.MOHAMMED(Student), 2020
- TOPKAYA C., Performance comparison of brbfs designed using different response modification factors, Postgraduate, T.Güner(Student), 2020
- TOPKAYA C., Experimental and numerical studies on replaceable links for eccentrically braced frames, Doctorate, Y.Onuralp(Student), 2020
- TOPKAYA C., Behavior of channel connectors in steel-concrete composite beams with precast slabs, Postgraduate, P.Arıkoğlu(Student), 2019
- TOPKAYA C., Analysis of silo supporting ring beams and intermediate ring stiffeners, Doctorate, Ö.ZEYBEK(Student), 2018
- TOPKAYA C., Developing replaceable members for steel lateral load resisting systems, Doctorate, M.BAKIR(Student), 2017
- TOPKAYA C., Evaluation of seismic performance factors for buckling restrained braced frames, Postgraduate, Y.ONURALP(Student), 2016
- TOPKAYA C., A comparative study of AISC360 and EC3 provisions for member stability, Postgraduate, Ö.KEVRAN(Student), 2016
- TOPKAYA C., A Comparative study of AISC360 and EC3 provisions for member stability, Postgraduate, Ö.Kevran(Student), 2016
- TOPKAYA C., SARITAŞ A., Numerical studies on eccentrically braced frames, Doctorate, A.KUŞYILMAZ(Student), 2014
- TOPKAYA C., Buckling of cylindrical metal shells resting on discretely supported ring beams, Postgraduate, C.SONAT(Student), 2013
- TOPKAYA C., Simulation of channel connector behavior using finite element method, Postgraduate, C.AYDOĞMUŞ(Student), 2013
- TOPKAYA C., Inelastic panel zone deformation demands in steel moment resisting frames, Postgraduate, M.Tuna(Student), 2012
- TOPKAYA C., Inelastic panel zone deformation demands in steel moment resisting frames, Postgraduate, M.TUNA(Student), 2012
- TOPKAYA C., Natural periods of braced steel frames designed to EC8, Postgraduate, E.GÜNAYDIN(Student), 2012
- TOPKAYA C., A numerical study on beam stability in eccentrically braced frames, Postgraduate, G.YİĞİTİSOY(Student), 2010
- TOPKAYA C., Experimental and numerical investigation of buckling restrained braces, Postgraduate, M.EMRAH(Student), 2009
- TOPKAYA C., A numerical study on response factors for steel wall-frame systems, Postgraduate, H.ARSLAN(Student), 2009
- TOPKAYA C., A comparative study of AISC-360 and eurocode 3 strength limit states, Postgraduate, S.ŞAHİN(Student), 2009
- TOPKAYA C., A numerical study on response factors for steel plate shear wall systems, Postgraduate, C.OZAN(Student), 2009
- TOPKAYA C., Assessment of second-order analysis methods presented in design codes, Postgraduate, U.YILDIRIM(Student), 2009
- TOPKAYA C., A numerical study on special truss moment frames, Postgraduate, H.DENİZ(Student), 2009
- TOPKAYA C., CANER A., Detailed fem analysis of two different splice steel connections, Postgraduate, O.YILMAZ(Student), 2008
- TOPKAYA C., Lateral stiffness of unstiffened steel plate shear wall systems, Postgraduate, M.ATASOY(Student), 2008
- TOPKAYA C., Finite element study on local buckling and energy dissipation of seismic bracing, Postgraduate,

A.KUŞYILMAZ(Student), 2008  
TOPKAYA C., Development of a graphical user interface for composite bridge finite element analysis, Postgraduate,  
D.GÜVEN(Student), 2007  
TOPKAYA C., Lateral buckling of overhanging beams, Postgraduate, K.MURAT(Student), 2005  
TOPKAYA C., Improvement of computational software for composite curved bridge analysis, Postgraduate,  
A.SERHAT(Student), 2005  
TOPKAYA C., A numerical study on block shear failure of steel tension members, Postgraduate, E.KARA(Student), 2005

## **Jury Memberships**

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, July, 2021

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Pushout tests on demountable bolted angle shear connectors for steel-concrete composite structures**  
KARAKUŞ B., ARIKOĞLU P., TOPKAYA C.  
Engineering Structures, vol.317, 2024 (SCI-Expanded)
- II. **Stiffening of I-section MRF beams against degradation due to local buckling**  
Karagümüş A., TOPKAYA C.  
Journal of Constructional Steel Research, vol.213, 2024 (SCI-Expanded)
- III. **Frictional mid-spliced shear links for eccentrically braced frames**  
Özkılıç Y. O., Ün E. M., TOPKAYA C.  
Earthquake Engineering and Structural Dynamics, vol.52, no.15, pp.5050-5071, 2023 (SCI-Expanded)
- IV. **FEMA P695 seismic performance evaluation of Cold-formed steel buildings with different shear wall strengths and stiffnesses**  
Pehlivan B. M., BARAN E., TOPKAYA C.  
Soil Dynamics and Earthquake Engineering, vol.173, 2023 (SCI-Expanded)
- V. **8-MW wind turbine tower computational shell buckling benchmark. Part 1: An international 'round-robin' exercise**  
Sadowski A. J., Seidel M., Al-Lawati H., Azizi E., Balscheit H., Böhm M., Chen L., van Dijk I., Doerich-Stavridis C., Fajuyitan O. K., et al.  
Engineering Failure Analysis, vol.148, 2023 (SCI-Expanded)
- VI. **Development of H-shaped hysteretic dampers for steel concentrically braced frames**  
DURSUN S. E., TOPKAYA C.  
Soil Dynamics and Earthquake Engineering, vol.166, 2023 (SCI-Expanded)
- VII. **Investigation of CFS shear walls with two-sided sheathing and dense fastener layout**  
PEHLİVAN B. M., BARAN E., TOPKAYA C., Isik Y. T.  
Thin-Walled Structures, vol.180, 2022 (SCI-Expanded)
- VIII. **Stiffness requirements for wind girders in open-top cylindrical steel tanks**  
Zeybek Ö., TOPKAYA C.  
Thin-Walled Structures, vol.176, 2022 (SCI-Expanded)
- IX. **Development of a loading protocol for long links in eccentrically braced frames**  
Al-Janabi M. A. Q., BALIKÇI E. M., TOPKAYA C.  
Journal of Constructional Steel Research, vol.193, 2022 (SCI-Expanded)
- X. **Seismic performance evaluation of eccentrically braced frames with long links using FEMA P695 methodology**  
BALIKÇI E. M., Al-Janabi M. A. Q., TOPKAYA C.  
Engineering Structures, vol.258, 2022 (SCI-Expanded)

- XI. **Stability of laterally unsupported shear links in eccentrically braced frames**  
ÖZKILIÇ Y. O., Zeybek O., TOPKAYA C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.51, no.4, pp.832-852, 2022 (SCI-Expanded)
- XII. **Effects of cyclic strain hardening on performance of eccentrically braced frames**  
Ün E. M., TOPKAYA C.  
Journal of Constructional Steel Research, vol.187, 2021 (SCI-Expanded)
- XIII. **Extended end-plate connections for replaceable shear links**  
Özkılıç Y. O., TOPKAYA C.  
Engineering Structures, vol.240, 2021 (SCI-Expanded)
- XIV. **Mid-spliced end-plated replaceable links for eccentrically braced frames**  
Özkılıç Y. O., Bozkurt M. B., TOPKAYA C.  
Engineering Structures, vol.237, 2021 (SCI-Expanded)
- XV. **The plastic and the ultimate resistance of four-bolt extended end-plate connections**  
Özkılıç Y. O., TOPKAYA C.  
Journal of Constructional Steel Research, vol.181, 2021 (SCI-Expanded)
- XVI. **Experimental and numerical analysis of cold-formed steel floor trusses with concrete filled compression chord**  
GÜLDÜR H., BARAN E., TOPKAYA C.  
Engineering Structures, vol.234, 2021 (SCI-Expanded)
- XVII. **Seismic performance of eccentrically braced frames designed to AISC341 and EC8 specifications**  
Aied Qissab Al-Janabi M., TOPKAYA C.  
Structures, vol.29, pp.339-359, 2021 (SCI-Expanded)
- XVIII. **Performance comparison of BRBFs designed using different response modification factors**  
Güner T., TOPKAYA C.  
Engineering Structures, vol.225, 2020 (SCI-Expanded)
- XIX. **Behavior of channel connectors in steel-concrete composite beams with precast slabs**  
ARIKOĞLU P., BARAN E., TOPKAYA C.  
Journal of Constructional Steel Research, vol.172, 2020 (SCI-Expanded)
- XX. **An energy dissipating hold down device for cold-formed steel structures**  
Pehlivan B. M., Baran E., Topkaya C.  
Journal of Constructional Steel Research, vol.166, 2020 (SCI-Expanded)
- XXI. **Nonsymmetrical loading protocols for shear links in eccentrically braced frames**  
Al-Janabi M. A. Q., Topkaya C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.49, pp.74-94, 2020 (SCI-Expanded)
- XXII. **Stress resultants for wind girders in open-top cylindrical steel tanks**  
Zeybek O., TOPKAYA C., Rotter J. M.  
ENGINEERING STRUCTURES, vol.196, 2019 (SCI-Expanded)
- XXIII. **Development of detachable replaceable links for eccentrically braced frames**  
Bozkurt M. B., Azad S. K., Topkaya C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.48, pp.1134-1155, 2019 (SCI-Expanded)
- XXIV. **Analysis of silo supporting ring beams resting on discrete supports**  
Zeybek O., TOPKAYA C., Rotter J. M.  
THIN-WALLED STRUCTURES, vol.135, pp.285-296, 2019 (SCI-Expanded)
- XXV. **Strength and stiffness of floor trusses fabricated from cold-formed steel lipped channels**  
Dizdar C., Baran E., Topkaya C.  
ENGINEERING STRUCTURES, vol.181, pp.437-457, 2019 (SCI-Expanded)
- XXVI. **Application of ring beam stiffness criterion for discretely supported shells under global shear and bending**  
TOPKAYA C., Zeybek O.  
ADVANCES IN STRUCTURAL ENGINEERING, vol.21, no.16, pp.2404-2415, 2018 (SCI-Expanded)
- XXVII. **Evaluation of seismic response factors for BRBFs using FEMA P695 methodology**

- Ozkihc Y. O., Bozkurt M. B., TOPKAYA C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.151, pp.41-57, 2018 (SCI-Expanded)
- XXVIII. **Replaceable links with gusseted brace joints for eccentrically braced frames**  
Bozkurt M. B., Topkaya C.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.115, pp.305-318, 2018 (SCI-Expanded)
- XXIX. **Low-Cycle Fatigue Testing of Shear Links and Calibration of a Damage Law**  
Bozkurt M. B., Kazemzadeh Azad S., Topkaya C.  
Journal of Structural Engineering (United States), vol.144, 2018 (SCI-Expanded)
- XXX. **Testing and analysis of different hold down devices for CFS construction**  
Pehlivan B. M., Baran E., Topkaya C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.145, pp.97-115, 2018 (SCI-Expanded)
- XXXI. **Dynamic buckling of braces in concentrically braced frames**  
KAZEMZADEH AZAD S., TOPKAYA C., BYBORDIANI M.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.47, no.3, pp.613-633, 2018 (SCI-Expanded)
- XXXII. **Replaceable links with direct brace attachments for eccentrically braced frames**  
Bozkurt M. B., Topkaya C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.46, pp.2121-2139, 2017 (SCI-Expanded)
- XXXIII. **Seismic behavior of concentrically braced frames designed to AISC341 and EC8 provisions**  
KAZEMZADEH AZAD S., TOPKAYA C., ASTANEH-ASL A.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.133, pp.383-404, 2017 (SCI-Expanded)
- XXXIV. **Requirements for intermediate ring stiffeners placed below the ideal location on discretely supported shells**  
Zeybek O., TOPKAYA C., Rotter J. M.  
THIN-WALLED STRUCTURES, vol.115, pp.21-33, 2017 (SCI-Expanded)
- XXXV. **A review of research on steel eccentrically braced frames**  
Kazemzadeh Azad S., Topkaya C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.128, pp.53-73, 2017 (SCI-Expanded)
- XXXVI. **Development of welded overlap core steel encased buckling-restrained braces**  
BOZKURT M. B., TOPKAYA C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.127, pp.151-164, 2016 (SCI-Expanded)
- XXXVII. **Evaluation of Seismic Response Factors for Eccentrically Braced Frames Using FEMA P695 Methodology**  
KUŞYILMAZ A., TOPKAYA C.  
EARTHQUAKE SPECTRA, vol.32, no.1, pp.303-321, 2016 (SCI-Expanded)
- XXXVIII. **Strength and stiffness requirements for intermediate ring stiffeners on discretely supported cylindrical shells**  
Zeybek O., TOPKAYA C., Rotter J. M.  
THIN-WALLED STRUCTURES, vol.96, pp.64-74, 2015 (SCI-Expanded)
- XXXIX. **Buckling of cylindrical metal shells on discretely supported ring beams**  
Sonat C., TOPKAYA C., Rotter J. M.  
THIN-WALLED STRUCTURES, vol.93, pp.22-35, 2015 (SCI-Expanded)
- XL. **Panel zone deformation demands in steel moment resisting frames**  
Tuna M., TOPKAYA C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.110, pp.65-75, 2015 (SCI-Expanded)
- XLI. **Fundamental periods of steel eccentrically braced frames**  
Kusyilmaz A., TOPKAYA C.  
STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS, vol.24, no.2, pp.123-140, 2015 (SCI-Expanded)
- XLII. **Displacement amplification factors for steel eccentrically braced frames**  
Kusyilmaz A., TOPKAYA C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.44, no.2, pp.167-184, 2015 (SCI-Expanded)
- XLIII. **Behavior of steel-concrete partially composite beams with channel type shear connectors**

- Baran E., Topkaya C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.97, pp.69-78, 2014 (SCI-Expanded)
- XLIV. **Stability of beams in steel eccentrically braced frames**  
Yigitsoy G., TOPKAYA C., Okazaki T.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.96, pp.14-25, 2014 (SCI-Expanded)
- XLV. **Ideal Location of Intermediate Ring Stiffeners on Discretely Supported Cylindrical Shells**  
TOPKAYA C., Rotter J. M.  
JOURNAL OF ENGINEERING MECHANICS, vol.140, no.4, 2014 (SCI-Expanded)
- XLVI. **Design overstrength of steel eccentrically braced frames**  
Kusyilmaz A., TOPKAYA C.  
INTERNATIONAL JOURNAL OF STEEL STRUCTURES, vol.13, no.3, pp.529-545, 2013 (SCI-Expanded)
- XLVII. **Fundamental periods of steel concentrically braced frames designed to Eurocode 8**  
Gunaydin E., TOPKAYA C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.42, no.10, pp.1415-1433, 2013 (SCI-Expanded)
- XLVIII. **An experimental study on channel type shear connectors**  
Baran E., TOPKAYA C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.74, pp.108-117, 2012 (SCI-Expanded)
- XLIX. **Ring Beam Stiffness Criterion for Column-Supported Metal Silos**  
TOPKAYA C., Rotter J. M.  
JOURNAL OF ENGINEERING MECHANICS-ASCE, vol.137, no.12, pp.846-853, 2011 (SCI-Expanded)
- L. **A numerical study on local buckling and energy dissipation of CHS seismic bracing**  
Kusyilmaz A., TOPKAYA C.  
THIN-WALLED STRUCTURES, vol.49, no.8, pp.984-996, 2011 (SCI-Expanded)
- LI. **A numerical study on special truss moment frames with Vierendeel openings**  
Olmez H. D., TOPKAYA C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.67, no.4, pp.667-677, 2011 (SCI-Expanded)
- LII. **A Comparative Study of AISC-360 and EC3 Strength Limit States**  
TOPKAYA C., Sahin S.  
INTERNATIONAL JOURNAL OF STEEL STRUCTURES, vol.11, no.1, pp.13-27, 2011 (SCI-Expanded)
- LIII. **A numerical study on response factors for steel wall-frame systems**  
Arslan H., TOPKAYA C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.39, no.14, pp.1611-1630, 2010 (SCI-Expanded)
- LIV. **An experimental study on steel-encased buckling-restrained brace hysteretic dampers**  
Eryasar M. E., TOPKAYA C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.39, no.5, pp.561-581, 2010 (SCI-Expanded)
- LV. **Lateral stiffness of steel plate shear wall systems**  
TOPKAYA C., Atasoy M.  
THIN-WALLED STRUCTURES, vol.47, pp.827-835, 2009 (SCI-Expanded)
- LVI. **A numerical study on response modification, overstrength, and displacement amplification factors for steel plate shear wall systems**  
Kurban C. O., TOPKAYA C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.38, no.4, pp.497-516, 2009 (SCI-Expanded)
- LVII. **Natural periods of steel plate shear wall systems**  
TOPKAYA C., Kurban C. O.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.65, no.3, pp.542-551, 2009 (SCI-Expanded)
- LVIII. **Solver and shell element performances for curved bridge analysis**  
TOPKAYA C., Kalayci A. S., Williamson E. B.  
JOURNAL OF BRIDGE ENGINEERING, vol.13, no.4, pp.418-424, 2008 (SCI-Expanded)
- LIX. **Finite element modeling of block shear failure in coped steel beams**  
Topkaya C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.63, no.4, pp.544-553, 2007 (SCI-Expanded)

- LX. **Block shear failure of gusset plates with welded connections**  
Topkaya C.  
ENGINEERING STRUCTURES, vol.29, no.1, pp.11-20, 2007 (SCI-Expanded)
- LXI. **Lateral buckling of overhanging crane trolley monorails**  
Ozdemir K. M., Topkaya C.  
ENGINEERING STRUCTURES, vol.28, no.8, pp.1162-1172, 2006 (SCI-Expanded)
- LXII. **A numerical study on linear bifurcation web buckling of steel I-beams in the sidesway mode**  
Topkaya C.  
ENGINEERING STRUCTURES, vol.28, no.7, pp.1028-1037, 2006 (SCI-Expanded)
- LXIII. **Evaluation of Top Flange Bracing Systems for Curved Box Girders**  
TOPKAYA C., WIDIANTO W., WILLIAMSON E. B.  
JOURNAL OF BRIDGE ENGINEERING, vol.10, no.6, pp.693-703, 2005 (SCI-Expanded)
- LXIV. **A finite element parametric study on block shear failure of steel tension members**  
Topkaya C.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.60, no.11, pp.1615-1635, 2004 (SCI-Expanded)
- LXV. **Analysis of specimen size effects in inclined compression test on laminated elastomeric bearings**  
Topkaya C.  
ENGINEERING STRUCTURES, vol.26, no.8, pp.1071-1080, 2004 (SCI-Expanded)
- LXVI. **Composite shear stud strength at early concrete ages**  
Topkaya C., Yura J., Williamson E.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.130, pp.952-960, 2004 (SCI-Expanded)
- LXVII. **Behavior of curved steel trapezoidal box-girders during construction**  
Topkaya C., Williamson E., Frank K.  
ENGINEERING STRUCTURES, vol.26, no.6, pp.721-733, 2004 (SCI-Expanded)
- LXVIII. **Development of computational software for analysis of curved girders under construction loads**  
Topkaya C., Williamson E.  
COMPUTERS & STRUCTURES, vol.81, no.21, pp.2087-2098, 2003 (SCI-Expanded)
- LXIX. **Test method for determining the shear modulus of elastomeric bearings**  
Topkaya C., Yura J.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.128, no.6, pp.797-805, 2002 (SCI-Expanded)

### Articles Published in Other Journals

- I. **The response of tall buildings to far-field earthquakes and the case of a 49-storey steel building**  
Muin S., Astaneh-Asl A., Topkaya C.  
International Journal of Earthquake and Impact Engineering, vol.3, no.1, pp.15-39, 2020 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental Investigation of H-Shaped Hysteretic Dampers For Concentrically Braced Frames**  
DURSUN S. E., TOPKAYA C.  
10th Hellenic National Conference of Steel Structures, Atina, Greece, 19 - 20 October 2023
- II. **Numerical Analysis of Stiffness Requirements For Wind Girders In Open-Top Cylindrical Steel Tanks**  
ZEYBEK Ö., TOPKAYA C.  
10th Hellenic National Conference of Steel Structures, Atina, Greece, 19 - 20 October 2023
- III. **An Experimental and Analytical Study on Cold Formed Steel Floor Trusses with Bare and Concrete Filled Compression Chords**  
Dizdar Ç., GÜLDÜR H., BARAN E., TOPKAYA C.  
Cold-Formed Steel Research Consortium Colloquium, United States Of America, 17 October 2022

- IV. **Experimental Validation of Detachable Links for Eccentrically Braced Frames**  
BOZKURT M. B., TOPKAYA C.  
Eurosteel 2020, England, 01 September 2021
- V. **Stability of Open-Top Cylindrical Steel Tanks with Primary Stiffening Ring under Wind Loading**  
ZEYBEK Ö., TOPKAYA C., Rotter J. M.  
Eurosteel 2020, England, 01 September 2021
- VI. **Buckling assessment of cylindrical steel tanks with top stiffening ring under wind loading**  
Zeybek O., Topkaya C.  
2019 International Colloquium on Stability and Ductility of Steel Structures, SDSS 2019, Prague, Czech Republic, 11 - 13 September 2019
- VII. **TOP WIND STIFFENER AND SHELL INTERACTION FOR OPEN-TOP CYLINDRICAL STEEL TANKS**  
ZEYBEK Ö., TOPKAYA C.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, 12 - 14 September 2018
- VIII. **INVESTIGATION ON CONNECTION DETAILS FOR WELDED OVERLAP CORE STEEL ENCASED BUCKLING RESTRAINED BRACES**  
BOZKURT M. B., ÖZKILIÇ Y. O., TOPKAYA C.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, 12 - 14 September 2018
- IX. **NUMERICAL MODELING OF COLD-FORMED STEEL SHEAR WALLS WITH WOOD-BASED SHEATHING UNDER LATERAL LOADING**  
Topcuoğlugil Y., Baran E., Topkaya C.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İzmir, Turkey, 12 - 14 September 2018
- X. **BEHAVIOR OF HOLD DOWN DEVICES USED IN CFS CONSTRUCTION**  
Pehlivan B. M., Baran E., Topkaya C.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İzmir, Turkey, 12 - 14 September 2018
- XI. **EFFECT OF DIFFERENT BRACING CONFIGURATION ON GLOBAL RESPONSE OF BUCKLING RESTRAINED BRACED FRAMES**  
BOZKURT M. B., ÖZKILIÇ Y. O., TOPKAYA C.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, 12 - 14 September 2018
- XII. **Evaluation of Seismic Performance Factors for Chevron Buckling Restrained Braced Frames**  
BOZKURT M. B., ÖZKILIÇ Y. O., TOPKAYA C.  
4th International Conference on Earthquake Engineering and Seismology, 11 - 13 October 2017
- XIII. **Analysis of Ring Beams for Discretely Supported Cylindrical Silos**  
ZEYBEK Ö., TOPKAYA C., Rotter J. M.  
9th Hellenic Conference of Steel Structures, 5 - 07 October 2017
- XIV. **Design of Intermediate Ring Stiffeners for Column-Supported Cylindrical Steel Shells**  
ZEYBEK Ö., TOPKAYA C., Rotter J. M.  
9th Hellenic Conference of Steel Structures, 5 - 07 October 2017
- XV. **Determination of Displacement Amplification Factors for Chevron BRBFs**  
BOZKURT M. B., ÖZKILIÇ Y. O., TOPKAYA C.  
9th Hellenic Conference of Steel Structures, 5 - 07 October 2017
- XVI. **Development of Replaceable Links for Eccentrically Braced Frames**  
TOPKAYA C., BOZKURT M. B.  
9th Hellenic Conference on Steel Structures, 5 - 07 October 2017
- XVII. **Effects of Different Core Plate Properties on Global Response of BRBFs**  
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- XVIII. **Analysis of Silo Supporting Ring Beams Resting on Discrete Supports**  
ZEYBEK Ö., TOPKAYA C., Rotter J. M.  
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- XIX. **An Experimental Study on Welded Overlap Core Steel Encased Buckling-restrained Braces**  
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- XX. **DEVELOPMENT OF A HAND METHOD TO ESTIMATE FUNDAMENTAL PERIODS OF STEEL ECCENTRICALLY BRACED FRAMES**  
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- XXI. **EVALUATION OF DISPLACEMENT AMPLIFICATION FACTORS FOR STEEL BUCKLING RESTRAINED BRACED FRAMES**  
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- XXIII. **Response of Buckling Restrained Braced Frames with Different Yield Strength and Yielding Length**  
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- XXIV. **DESIGN REQUIREMENTS FOR INTERMEDIATE RING STIFFENERS ON DISCRETELY SUPPORTED CYLINDRICAL STEEL SHELLS**  
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- TOPKAYA C., ARIKOĞLU P., Project Supported by Higher Education Institutions, DEĞİŞTİRİLEBİLİR (SÖKÜLEBİLİR) KÖŞEBENT TİPİ MEKANİK ANKRAJ GELİŞTİRİLMESİ, 2018 - 2019
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## **Metrics**

Publication: 99  
Citation (WoS): 1172  
Citation (Scopus): 1388  
H-Index (WoS): 19  
H-Index (Scopus): 22

## **Non Academic Experience**

The University of Edinburgh  
Phil M. Ferguson Structural Eng Lab - Univ of Texas