

Res. Asst. PhD MELTEM ERYILMAZ YILDIRIM

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AGL-6373-2022

ScopusID: 57216874483

Yoksis Researcher ID: 15703

Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2016 - 2022

Postgraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, İnşaat Mühendisliği Bölümü, Turkey 2014 - 2016

Undergraduate, Erciyes University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2008 - 2012

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Experimental and Analytical Investigation of Lap Splices in GFRP and Steel Reinforced Columns of Frames Subjected to Seismic Loading, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, 2022

Postgraduate, Investigation of Lateral-Torsional Buckling Moment Factors of Steel Members Under Bending and Axial, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, 2016

Research Areas

Structural Engineering, Steel Structures, Earthquake Engineering, Concrete Structures, Materials in Civil Engineering, Composite materials

Academic Titles / Tasks

Research Assistant PhD, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ BÖLÜMÜ, 2013 - Continues

Researcher, Purdue University, Engineering Faculty, Lyles School of Civil Engineering, 2021 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Seismic performance assessment of structural systems in the aftermath of the 2023 Kahramanmaraş earthquakes: Observations and fragility analyses**
Sonmez E., Eryilmaz Yıldırım M., Aydın M. F., Koroglu F. B.
EARTHQUAKE SPECTRA, pp.1-21, 2024 (SCI-Expanded)
- II. **Flexural behavior of concrete beams hybrid-reinforced with glass fiber-reinforced polymer, carbon fiber-reinforced polymer, and steel rebars**
Terzioglu H., ERYILMAZ YILDIRIM M., KARAGÖZ Ö., ÜNLÜOĞLU E., DOĞAN M.
Advances in Structural Engineering, vol.27, no.5, pp.775-795, 2024 (SCI-Expanded)
- III. **Quantitative evaluation of the damage to RC buildings caused by the 2023 southeast Turkey earthquake sequence**
Pujol S., Bedirhanoglu I., Donmez C., Dowgala J. D., ERYILMAZ YILDIRIM M., Klaboe K., Koroglu F. B., Lequesne R. D., ÖZTÜRK B., Pledger L., et al.
Earthquake Spectra, vol.40, no.1, pp.505-530, 2024 (SCI-Expanded)
- IV. **Truss-sizing optimization attempts with CSA: a detailed evaluation**
ÖZBAŞARAN H., ERYILMAZ YILDIRIM M.
SOFT COMPUTING, vol.24, no.22, pp.16775-16801, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **Size effect on compressive behavior of GFRP bars**
Eryilmaz Yıldırım M., Aybar K., Canbaz M.
Challenge Journal of Structural Mechanics, vol.10, no.1, pp.14-20, 2024 (Peer-Reviewed Journal)
- II. **A NEW APPROACH TO TENSILE TESTING OF GFRP BARS**
Aybar K., Eryilmaz Yıldırım M., Canbaz M.
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.31, pp.826-833, 2023 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Analyzing Structural Performance of Buildings in the Kahramanmaraş Earthquakes: The Role of Structural Systems**
Aydın M. F., Eryilmaz Yıldırım M., Köroğlu F. B., Sönmez E.
in: Proceedings of the 7th International Conference on Earthquake Engineering and Seismology, Eren Uckan, Haluk Akgun, Elcin Gok, Cem Yenidogan, Editor, Springer Nature, Basel, pp.129-146, 2024
- II. **Evaluation of the Structural Damage Caused by the 2023 Türkiye Earthquakes in Light of the Design-Basis and Measured Ground Motion Intensities**
Köroğlu F. B., Sönmez E., Eryilmaz Yıldırım M.
in: Proceedings of the 7th International Conference on Earthquake Engineering and Seismology, Eren Uckan, Haluk Akgun, Elcin Gok, Cem Yenidogan, Editor, Springer Nature, Basel, pp.115-127, 2024
- III. **Structural Performance of R/C Buildings in 2023 Kahramanmaraş Earthquakes Under the Lens of Hassan Index**
Eryilmaz Yıldırım M., Yeşilyurt C., Gözün Ü., Öztürk B., Dönmez C.
in: Proceedings of the 7th International Conference on Earthquake Engineering and Seismology, Eren Uckan, Haluk Akgun, Elcin Gok, Cem Yenidogan, Editor, Springer Nature, Basel, pp.99-114, 2024
- IV. **Building through crisis: The impact of Covid-19 on civil engineering practices and perspectives**
KARA Ç., ERYILMAZ YILDIRIM M., CANBAZ M.
in: Sustainable Transportation System in Civil Engineering and Managerial Informatics Assessments in Construction Systems, Kumbasaroğlu Atilla, Editor, Bidge, Ankara, pp.84-119, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Correlation Between Intensity Measures and Damage Caused by the 2023 Turkey Earthquakes**
Abdo B., Eryılmaz Yıldırım M., Köroğlu F. B., Öztürk B., Sönmez E., Speicher M. S., Pujol S.
World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, 30 June - 05 July 2024, pp.1-10
- II. **Lessons From The 2023 SE Türkiye EQS: A Study On Damaged RC Buildings Considering The Hassan Index**
Dönmez C., Dowgala J. D., Eryılmaz Yıldırım M., Güllü M. F., Iturburu L. J., Köroğlu F. B., Lequesne R., Öztürk B., Pujol S., Rincon J., et al.
18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, 30 June - 05 July 2024, pp.1-12
- III. **Evaluation of the Structural Damage Caused by the 2023 Türkiye Earthquakes in Light of the Design-Basis and Measured Ground Motion Intensities**
Köroğlu F., Sönmez E., ERYILMAZ YILDIRIM M.
7th International Conference on Earthquake Engineering and Seismology, 7ICEES 2023, Antalya, Turkey, 6 - 10 November 2023, vol.488 LNCE, pp.115-127
- IV. **Analyzing Structural Performance of Buildings in the Kahramanmaraş Earthquakes: The Role of Structural Systems**
Aydın M. F., ERYILMAZ YILDIRIM M., Köroğlu F. B., Sönmez E.
7th International Conference on Earthquake Engineering and Seismology, 7ICEES 2023, Antalya, Turkey, 6 - 10 November 2023, vol.488 LNCE, pp.129-146
- V. **Structural Performance of R/C Buildings in 2023 Kahramanmaraş Earthquakes Under the Lens of Hassan Index**
ERYILMAZ YILDIRIM M., Yesilyurt C., Gozun U., ÖZTÜRK B., Donmez C.
7th International Conference on Earthquake Engineering and Seismology, 7ICEES 2023, Antalya, Turkey, 6 - 10 November 2023, vol.488 LNCE, pp.99-114
- VI. **A Vertical Loading System With Linear Slide Bearing For Full Size Column and Frame Experiments**
Karagöz Ö., Eryılmaz Yıldırım M., Doğan M., Ünlüoğlu E.
Ulusal 7. Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, Turkey, 4 - 05 October 2019, pp.113-118
- VII. **Experimental Investigation Of Seismic Behavior of GFRP Reinforced Frames**
Eryılmaz Yıldırım M., Ünlüoğlu E., Doğan M., Karagöz Ö.
Ulusal 7. Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, Turkey, 4 - 05 October 2019, pp.53-58
- VIII. **A Loading Frame for Steel and Reinforced Concrete Elements**
Eryılmaz Yıldırım M., Karagöz Ö., Doğan M., Ünlüoğlu E.
Ulusal 7. Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, Turkey, 4 - 05 October 2019, pp.159-162
- IX. **An Experimental Study On Behaviour of Concrete Frames Reinforced With Hybrid FRP-Steel Bars**
Şolpan B., Ünlüoğlu E., Eryılmaz Yıldırım M., Karagöz Ö.
Ulusal 7. Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, Turkey, 4 - 05 October 2019, pp.59-62
- X. **Steel Yielding Damper Experiments on RC Frames**
Karagöz Ö., Doğan M., Eryılmaz Yıldırım M.
Ulusal 7. Yapı Mekaniği Laboratuvarları Çalıştayı, Konya, Turkey, 4 - 05 October 2019, pp.119-124
- XI. **Two-stage Candidate Evaluation Strategy in Optimization of Truss Structures with Metaheuristics**
ERYILMAZ M., ÖZBAŞARAN H.
8th International Conference on Bioinspired Optimization Methods and their Applications, 16 - 18 May 2018
- XII. **Effect of high temperature on sepiolite hydraulic lime mortar**
CANBAZ M., ERYILMAZ M.
Second International Conference on Performance-based and Life-cycle Structural Engineering, Brisbane, Australia, 9 - 11 December 2015, vol.1, pp.1051-1059

Supported Projects

ÜNLÜOĞLU E., ERYILMAZ YILDIRIM M., Project Supported by Higher Education Institutions, Deprem Etkisindeki Çerçevelerde GFRP ve Çelik Donatılı Kolonların Bindirme Bölgelerinin Deneysel ve Analitik İncelenmesi, 2020 - 2022
ÜNLÜOĞLU E., DOĞAN M., CANBAZ M., ERYILMAZ YILDIRIM M., KARAGÖZ Ö., Project Supported by Higher Education Institutions, Fiber Takviyeli Polimer Donatının (FRP) Kiriş Dayanımına Etkisinin Araştırılması, 2017 - 2018

Metrics

Publication: 22
Citation (WoS): 13
Citation (Scopus): 28
H-Index (WoS): 1
H-Index (Scopus): 3

Scholarships

Fulbright Ph.D. Dissertation Research Grant, Fulbright Program, 2021 - 2022