

Res. Asst. Barış BAYRAK

Personal Information

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Education Information

Doctorate, Atatürk Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği , Turkey 2015 - Continues

Postgraduate, Atatürk Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği , Turkey 2012 - 2015

Undergraduate, Atatürk Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği , Turkey 2008 - 2012

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Occupational Health and Safety, İŞ SAĞLIĞI VE GÜVENLİĞİ KATILIM BELGESİ, ATATÜRK ÜNİVERSİTESİ, 2017

Dissertations

Postgraduate, BETONARME KİRİŞLERİN BURULMA DAVRANIŞI, Atatürk Üniversitesi, İnşaat Mühendisliği, Yapı, 2015

Research Areas

Civil Engineering, Structure, Concrete Structures, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Ataturk University, Fen Bilimleri Enstitüsü, -, 2015 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Buckling behavior of double-layered composite cylindrical shells**
Maali M., BAYRAK B., KILIÇ M., Sagioglu M., AYDIN A. C.
INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING, vol.191, 2021 (Journal Indexed in SCI)
- II. **The shear and flexural behavior of cold-formed steel composite I and U beams**
Aydın A. C. , Bayrak B., Maali M., Mete E., Cebi K., Kılıç M.
Scientia Iranica, vol.28, no.4, pp.2119-2132, 2021 (Journal Indexed in SCI Expanded)
- III. **The mechanical behavior of thermally enhanced polypropylene concrete**
AYDIN A. C. , Alcan H. G. , BAYRAK B., KILIÇ M., Maali M.
CONSTRUCTION AND BUILDING MATERIALS, vol.262, 2020 (Journal Indexed in SCI)

- IV. **The effect of trio-fiber reinforcement on the properties of self-compacting fly ash concrete**
Öz A., Bayrak B., Aydın A. C.
Construction and Building Materials, 2020 (Journal Indexed in SCI)
- V. **The torsional behavior of reinforced self-compacting concrete beams**
Aydın A. C. , Bayrak B.
Advances in Concrete Construction, vol.8, no.3, pp.187-198, 2019 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **HIGH TEMPERATURE PERFORMANCE OF SELF-COMPACTING CONCRETE CONTAINING BORON ACTIVE BELITE CEMENT**
AYDIN A. C. , ÖZ A., Gök N., BAYRAK B.
ARCHITECTURE CIVIL ENGINEERING ENVIRONMENT, vol.14, no.2, pp.67-78, 2021 (Journal Indexed in ESCI)
- II. **THE TORSIONAL AND SHEAR BEHAVIOR OF STEEL FIBER REINFORCED RC MEMBERS**
AYDIN A. C. , KILIÇ M., Maali M., BAYRAK B., Tunç E.
ARCHITECTURE CIVIL ENGINEERING ENVIRONMENT, vol.14, no.2, pp.47-65, 2021 (Journal Indexed in ESCI)
- III. **BETONARME PERDE DUVARLARIN FARKLI YAPI MALZEMELERİ AÇISINDAN DEĞERLENDİRİLMESİ**
Aydın A. C. , Bayrak B.
Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.10, no.1, pp.217-240, 2021 (National Refreed University Journal)
- IV. **Shear Wall Design within the Light of Prominent Standards**
AYDIN A. C. , BAYRAK B., Maali M., KILIÇ M., ALCAN H. G.
Civil Engineering Beyond Limits, vol.1, no.4, pp.13-20, 2020 (Refereed Journals of Other Institutions)
- V. **Behavior of Polypropylene Filled Cold Formed Steel Profiles – Part B: Torsion**
Kılıç M., Maali M., Bayrak B., Çebi K., Mete E., Aydın A. C.
Civil Engineering Beyond Limits, vol.1, no.2, pp.7-11, 2020 (Refereed Journals of Other Institutions)
- VI. **Behavior of Polypropylene Filled Cold Formed Steel Profiles – Part A: Bending Shear**
Maali M., Kılıç M., Bayrak B., Mete E., Çebi K., Aydın A. C.
Civil Engineering Beyond Limits, vol.1, no.2, pp.1-6, 2020 (Refereed Journals of Other Institutions)
- VII. **Betonarme Kirişlerin Deneysel ve Teorik Burulma Momenti Değerlerinin Karşılaştırılması**
Aydın A. C. , Bayrak B.
SAKARYA ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.21, no.5, pp.1-9, 2017 (National Refreed University Journal)
- VIII. **Kendiliğinden Yerleşen ve Normal Betonlu Betonarme Kirişlerin Burulma Davranışının Deneysel ve Teorik Olarak İncelenmesi**
Bayrak B., Aydın A. C.
Sinop Üniversitesi Fen Bilimleri Dergisi, vol.1, no.1, pp.23-32, 2016 (International Refreed University Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Seismic Behavior of Soft Storey Structure in Frequency Time Domain**
Çelebi O., Bayrak B., Alcan H. G. , Aydın A. C.
Internatioanal Congress on the Phenomenological Aspects of Civil Engineering Structures, Erzurum, Turkey, 20 - 23 June 2021, vol.1, no.1, pp.539-544
- II. **Investigation of Floor Vibrations of Steel Structure Under Earthquake**
Çelebi O., Bayrak B., Aydın A. C.
INTERNATIONAL SYMPOSIUM ON APPLIED SCIENCES AND ENGINEERING, Erzurum, Turkey, 7 - 09 April 2021, vol.1, no.1, pp.315-328
- III. **Theoretical and Experimental Behavior of Reinforced Concrete Beams Under Torsion**

Bayrak B., Aydın A. C.

Proc. of Fourth International Conference On Advances in Civil, Structural and Mechanical Engineering - ACSM
2016, Pathum-Thani, Thailand, 7 - 08 May 2016, pp.33-36

Expert Reports

I. Palandöken Devlet Hastanesi Deprem Tahkiki Raporu (Döner Sermaye)

Aydın A. C. , Kılıç M., Bayrak B., Çelebi O.

Palandöken devlet Hastanesi, pp.67, Erzurum, 2021

Supported Projects

Bayrak B., Aydın A. C. , KILIÇ M., Project Supported by Higher Education Institutions, BETONARME KOMPOZİT
PERDELERİN YIĞILMALI PLASTİK MAFSAL YAKLAŞIMIYLA DENEYSEL VE SAYISAL MODELLENMESİ, 2020 - 2022

Bayrak B., Aydın A. C. , Project Supported by Higher Education Institutions, HİBRİD LİFLİ KENDİLİĞİNDEN YERLEŞEN
BETONLU PERDE DUVARLARIN BURULMA DAVRANIŞININ DENEYSEL VE SAYISAL OLARAK İNCELENMESİ, 2019 - 2021

Edit Congress and Symposium Activities

ZEMİN MEKANİĞİ VE GEOTEKNİK MÜHENDİSLİĞİ 16. ULUSAL KONGRESİ, Attendee, Erzurum, Turkey, 2016

Citations

Total Citations (WOS):6

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