

Prof. Rıza POLAT



Personal Information

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International Researcher IDs

ScholarID: YH5MSR8AAAAJ

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Publons / Web Of Science ResearcherID: AAF-7347-2019

ScopusID: 35185545300

Yoksis Researcher ID: 20967

Education Information

Postgraduate, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey
2003 - 2017

Doctorate, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2007 -
2013

Undergraduate, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey
1999 - 2003

Dissertations

Doctorate, Genleştirilmiş Perlit Agregası, Nano ve Mikro Boyutta CaO ve MgO ve Kil'in Yüksek Mukavemetli Betonların Otojen Rötrelere Üzerindeki Etkisi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, 2013

Postgraduate, Genleştirilmiş Perlit ve Pomza ile Hava Sürükleyici Katkının Betonda Kılcal Geçirimsizlik ve Don Hasarına Etkisi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, 2007

Research Areas

Civil Engineering, Building materials, Materials in Civil Engineering, Concrete Technology, Engineering and Technology

Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2023 - Continues

Associate Professor, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - 2023

Assistant Professor, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2014 - 2018

Assistant Professor, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2014 - 2018

Research Assistant PhD, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2013 - 2014

Research Assistant, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2010 - 2013

Academic and Administrative Experience

Academic Performance D. Board Member, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2024 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2023 - Continues

Müdek Üst Komisyonu , Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2022 - Continues

Head of Department, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2019 - 2022

Atatürk Üniversitesi, Hıms Meslek Yüksekokulu, 2015 - 2017

Courses

Yapım Yönetimi, Undergraduate, 2023 - 2024, 2022 - 2023

İşletmede Mesleki Eğitim, Undergraduate, 2023 - 2024, 2022 - 2023

Yapım Yönetimi, Undergraduate, 2022 - 2023

İleri Yapı Malzemeleri, Undergraduate, 2023 - 2024, 2020 - 2021, 2019 - 2020, 2018 - 2019

Polimer ve Geopolimer Harç ve Betonlar, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019

İleri Beton Teknolojisi, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Seçmeli Tasarım I, Undergraduate, 2022 - 2023

Yapı İşletmesi ve Şantiye Tekniği, Undergraduate, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018

Uygulamalı Mühendislik Eğitimi, Undergraduate, 2021 - 2022

Seçmeli Tasarım I, Undergraduate, 2022 - 2023

Yapı İşletmesi ve Şantiye Tekniği, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Yapım Mühendisliği ve İşletmesi, Undergraduate, 2020 - 2021

Malzeme Bilimi, Undergraduate, 2021 - 2022, 2017 - 2018

Malzeme Bilimi, Undergraduate, 2021 - 2022, 2017 - 2018

Yapım Mühendisliği ve İşletmesi, Undergraduate, 2020 - 2021

Bitirme Projesi II, Undergraduate, 2019 - 2020, 2018 - 2019

Bitirme Projesi II, Undergraduate, 2019 - 2020, 2018 - 2019

İnşaat Mühendisliği Seçmeli Tasarımı II, Undergraduate, 2019 - 2020, 2018 - 2019

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

İleri Yapı Malzemeleri, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Yapı Malzemeleri, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

İnşaat Mühendisliği Seçmeli Tasarımı II, Undergraduate, 2019 - 2020, 2018 - 2019

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

Yapı Malzemeleri, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Bitirme Projesi I, Undergraduate, 2019 - 2020, 2017 - 2018

Bitirme Projesi I, Undergraduate, 2019 - 2020, 2017 - 2018

İnşaat Mühendisliği Seçmeli Tasarımı I, Undergraduate, 2019 - 2020, 2017 - 2018

İnşaat Mühendisliği Seçmeli Tasarımı I, Undergraduate, 2019 - 2020, 2017 - 2018

İnşaat Mühendisliğine Giriş, Undergraduate, 2018 - 2019

İnşaat Mühendisliğine Giriş, Undergraduate, 2018 - 2019

İnşaat Mühendisliği Laboratuvarı I, Undergraduate, 2017 - 2018

İnşaat Mühendisliği Laboratuvarı I, Undergraduate, 2017 - 2018

İnşaat Mühendisliği Laboratuvarı II, Undergraduate, 2014 - 2015

İnşaat Mühendisliği Laboratuvarı II, Undergraduate, 2014 - 2015

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2023

Post Graduate, Post Graduate, Atatürk Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, December, 2023

Post Graduate, Post Graduate, Atatürk Üniversitesi, June, 2023

Post Graduate, Post Graduate, Atatürk Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2023

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2023

Post Graduate, Post Graduate, Atatürk Üniversitesi, March, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022

Post Graduate, Post Graduate, Erzurum Teknik Üniversitesi, January, 2022

Post Graduate, Post Graduate, Erzurum Teknik Üniversitesi, January, 2022

Post Graduate, Post Graduate, Atatürk Üniversitesi, December, 2021

Post Graduate, Post Graduate, İnönü Üniversitesi, August, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, July, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, July, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, July, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021

Post Graduate, Post Graduate, İnönü Üniversitesi, May, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, January, 2021

Post Graduate, Post Graduate, Iğdır Üniversitesi, January, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, December, 2020

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2020

Post Graduate, Post Graduate, Atatürk Üniversitesi, December, 2020

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, December, 2020

Post Graduate, Post Graduate, Atatürk Üniversitesi, May, 2020

Doctoral Examination, Doctoral Examination, İnönü Üniversitesi, December, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İnönü Üniversitesi, September, 2019

Doctorate, Doctorate, Atatürk Üniversitesi, September, 2019

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, July, 2019

Post Graduate, Post Graduate, Atatürk Üniversitesi, August, 2018

Post Graduate, Post Graduate, İnönü Üniversitesi, July, 2018

Post Graduate, Post Graduate, Atatürk Üniversitesi, November, 2017

Post Graduate, Post Graduate, Atatürk Üniversitesi, September, 2017

Post Graduate, Post Graduate, Atatürk Üniversitesi, June, 2016

Designed Lessons

Polat R., Polimer ve Geopolimer Harç ve Betonlar, Doctorate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Sustainable concrete production: Mechanical and durability behaviour of slag-based geopolymer containing recycled geopolymer aggregate**
Eryilmaz K., POLAT R.
JOURNAL OF BUILDING ENGINEERING, vol.96, 2024 (SCI-Expanded)
- II. **Effect of stone color, dosage and alkali type on Ahlat Stone (volcanic origin) based geopolymer concretes**
Toprak S. M. U., POLAT R., LEVET A., Toprak S. N.
JOURNAL OF BUILDING ENGINEERING, vol.67, 2023 (SCI-Expanded)
- III. **Improving the durability of pumice-fly ash based geopolymer concrete with calcium aluminate cement**
Karaaslan C., Yener E., Bagatur T., POLAT R.
JOURNAL OF BUILDING ENGINEERING, vol.59, 2022 (SCI-Expanded)
- IV. **The influence of nano-CaO and nano-Al₂O₃ and curing conditions on perlite based geopolymer concrete produced by the one-part mixing method**
Dişçi E., POLAT R.
Construction and Building Materials, vol.346, 2022 (SCI-Expanded)
- V. **Synergic effect of fly ash and calcium aluminate cement on the properties of pumice-based geopolymer mortar**
Karaaslan C., Yener E., Bagatur T., POLAT R., Gul R., Alma M. H.
CONSTRUCTION AND BUILDING MATERIALS, vol.345, 2022 (SCI-Expanded)
- VI. **The effect of vehicle waste tires on the mechanical, hardness and stress-strain properties of polyester-based polymer concretes**
Akin M. H., POLAT R.
CONSTRUCTION AND BUILDING MATERIALS, vol.325, 2022 (SCI-Expanded)
- VII. **Influence of singular and binary nanomaterials on the physical, mechanical and durability properties of mortars subjected to elevated temperatures and freeze-thaw cycles**
POLAT R., Qarluq A. W., KARAGÖL F.
CONSTRUCTION AND BUILDING MATERIALS, vol.295, 2021 (SCI-Expanded)
- VIII. **Mechanical and physical behavior of cement paste and mortar incorporating nano-CaO**
Polat R., Demirboga R., Karagöl F.
STRUCTURAL CONCRETE, vol.20, pp.361-370, 2019 (SCI-Expanded)
- IX. **The influence of lightweight aggregate, freezing-thawing procedure and air entraining agent on freezing-thawing damage**
Karagöl F., Yeğın Y., Polat R., Benli A., Demirboga R.
STRUCTURAL CONCRETE, vol.19, pp.1328-1340, 2018 (SCI-Expanded)
- X. **The influence of expanded perlite aggregate on compressivestrength, linear autogenous shrinkage, restrained shrinkage, heatof hydration of cement-based materials**
Polat R., Demirboğa R., Karagöl F.
Structural Concrete, vol.19, no.6, pp.1771-1781, 2018 (SCI-Expanded)
- XI. **The effect of nano-MgO on the setting time, autogenous shrinkage, microstructure and mechanical properties of high performance cement paste and mortar**
POLAT R., Demirboğa R., KARAGÖL F.
Construction and Building Materials, vol.156, pp.208-218, 2017 (SCI-Expanded)
- XII. **The effect of antifreeze additives on fresh concrete subjected to freezing and thawing cycles**
POLAT R.
COLD REGIONS SCIENCE AND TECHNOLOGY, vol.127, pp.10-17, 2016 (SCI-Expanded)
- XIII. **Effects of the different atmospheric steam curing processes on the properties of self-compacting-concrete containing microsilica**
AYDIN A. C., ÖZ A., POLAT R., MINDIVAN H.

SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.40, no.4, pp.1361-1371, 2015 (SCI-Expanded)

- XIV. **Effects of nano and micro size of CaO and MgO, nano-clay and expanded perlite aggregate on the autogenous shrinkage of mortar**
POLAT R., Demirboga R., Khushefati W. H.
CONSTRUCTION AND BUILDING MATERIALS, vol.81, pp.268-275, 2015 (SCI-Expanded)
- XV. **The effects of urea on strength gaining of fresh concrete under the cold weather conditions**
Demirboga R., KARAGÖL F., POLAT R., KAYGUSUZ M. A.
CONSTRUCTION AND BUILDING MATERIALS, vol.64, pp.114-120, 2014 (SCI-Expanded)
- XVI. **Effect of heat treatment temperature on ground pumice activation in geopolymer composites**
YADOLLAHİ M. M., DEMİRBOĞA R., POLAT R.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.21, no.3, pp.377-382, 2014 (SCI-Expanded)
- XVII. **Safety factor determining for space trusses by non-linear analysis and artificial neural network method**
YADOLLAHİ M. M., KARAGÖL F., KAYGUSUZ M. A., POLAT R., DEMİRBOĞA R.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.20, no.3, pp.277-284, 2013 (SCI-Expanded)
- XVIII. **The influence of calcium nitrate as antifreeze admixture on the compressive strength of concrete exposed to low temperatures**
KARAGÖL F., Demirboga R., KAYGUSUZ M. A., YADOLLAHİ M. M., POLAT R.
COLD REGIONS SCIENCE AND TECHNOLOGY, vol.89, pp.30-35, 2013 (SCI-Expanded)
- XIX. **Effect of glass fiber-reinforced polymer and epoxy injection on compressive strength of elevated temperature damaged concrete**
DEMİRBOĞA R., KAYGUSUZ M. A., POLAT R.
FIRE AND MATERIALS, vol.37, no.2, pp.100-113, 2013 (SCI-Expanded)
- XX. **The influence of lightweight aggregate on the physico-mechanical properties of concrete exposed to freeze-thaw cycles**
POLAT R., Demirboga R., Karakoc M. B., TÜRKMEN I.
COLD REGIONS SCIENCE AND TECHNOLOGY, vol.60, no.1, pp.51-56, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Geopolimer Beton Atıklarından Elde Edilen Agregaların Geopolimer Betonda Kullanılabilirliğinin Araştırılması**
ERYILMAZ K., POLAT R., TURHAN D., KARAGÖL F.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, pp.419-431, 2023 (Peer-Reviewed Journal)
- II. **Atık Lastik Katkılı Betonlarda Uçucu kül Kullanımının Aderans ve Basınç Dayanımına Etkisi**
Şimşek B., Polat R., Gül R.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.4, pp.2290-2301, 2022 (Peer-Reviewed Journal)
- III. **Uçucu Kül ve Kalsiyum Alüminat Çimentosu Katkılı Pomza Esaslı Geopolimer Harçların Sülfürik Asit Direnci**
Karaaslan C., Yener E., Bağatur T., Polat R., Gül R.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.4, pp.2302-2312, 2022 (Peer-Reviewed Journal)
- IV. **Erzurum Pasinler Bölgesi Perlitinin Geopolimer Üretiminde Kullanımının Araştırılması**
Akbulut F., POLAT R., KARAGÖL F.
Türk Doğa ve Fen Dergisi, vol.10, no.1, pp.37-45, 2021 (Peer-Reviewed Journal)
- V. **Halloysit Nano-Kil, Nano-SiO₂ ve Nano-CaO'in Tekli ve İkili Kullanımının Çimento Esaslı Harçların Özelliklerine Etkileri**
Qarluq A. W., POLAT R., KARAGÖL F.
Avrupa Bilim ve Teknoloji Dergisi, no.20, pp.815-826, 2020 (Peer-Reviewed Journal)
- VI. **The Effect of Cement Type and the Atmospheric Steam Curing Cycles on the Properties of Variable**

Types of Self-Compacting Lightweight Concrete

Aydın A. C., Gül M. S., Öz A., Polat R., Kotan T., Kurt M.

Journal of Civil, Construction and Environmental Engineering, vol.3, pp.39-46, 2018 (Scopus)

VII. The Correlation Between Aggregate Shape and Compressive Strength of Concrete Digital Image Processing Approach

POLAT R., MOHABBI YADOLLAHI M., SAĞSÖZ A. E., ARASAN S.

International Journal of Structural and Civil Engineering Research, vol.2, 2013 (Peer-Reviewed Journal)

VIII. Behavior Investigation of NaOH Activated Pumice Based Geopolymer Composites Exposed to Elevated Temperature

MOHABBI YADOLLAHI M., DEMİRBOĞA R., POLAT R., ATASHAFRAZEH M.

International Journal of Structural and Civil Engineering Research, vol.2, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

I. Yüksekte Çalışmalarda İş Sağlığı ve Güvenliği

Polat R.

in: Maden ve Yapı İşlerinde İSG, Dr. Öğr. Üyesi ALİ ÖZ Dr. Öğr. Üyesi YUNUS EMRE BENKLİ, Editor, Atatürk Üniversitesi Açık Öğretim Yayınları, Erzurum, pp.241-270, 2019

II. Yapı İşlerinde Kullanılan İş Ekipmanlarının Sağlık ve Güvenlik Şartları

Polat R.

in: Maden ve Yapı İşlerinde İSG, Dr. Öğr. Üyesi ALİ ÖZ Dr. Öğr. Üyesi YUNUS EMRE BENKLİ, Editor, Atatürk Üniversitesi Açık Öğretim Yayınları, Erzurum, pp.271-303, 2019

III. Yapı Malzemeleri Agregalar, Bağlayıcı ve Yapay Taş Malzemeleri

Polat R.

in: Bina ve Yapım Bilgisi Bölüm 3, Ramazan DEMİRBOĞA, Editor, Atatürk Üniversitesi Açıköğretim Fakültesi Yayınları, Erzurum, pp.1-15, 2015

IV. Yapı Malzemeleri Cam, Metal, Plastik ve Yalıtım Malzemeleri

Polat R.

in: Bina ve Yapım Bilgisi Bölüm 4, Ramazan DEMİRBOĞA, Editor, Atatürk Üniversitesi Açıköğretim Fakültesi Yayınları, Erzurum, pp.1-15, 2015

Refereed Congress / Symposium Publications in Proceedings

I. Investigation of Mechanical Performance of Geopolymer Concrete Exposed to Various Chemical Effects After Freeze-Thaw Cycles

KARAGÖL F., YAZICI N., POLAT R.

5th International Conference on Advanced Engineering Technologies, 25 - 27 September 2024

II. SON KULLANMA TARİHİ GEÇMİŞ ÇİMENTOLARIN GEOPOLİMER HARÇ ÜRETİMİNDE KULLANILMASI

TOPRAK S. M. U., POLAT R., TURHAN D., KARAGÖL F., KARAASLAN C.

4. INTERNATIONAL TRAKYA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, 20 - 21 July 2024

III. EFFECT OF SILICA MODULUS ON EFFLORESCENCE IN ONE PART GEOPOLYMERS

DİKİCİOĞLU B., TURHAN D., KARAGÖL F., POLAT R.

INTERNATIONAL CONGRESS OF NEW SEARCHES IN SCIENCES, 8 - 09 June 2024

IV. Influence of Binary Use of Antifreeze Admixtures on The Early-Age Frost Resistance of Self-Compacting Concretes

ÖZ A., KARAGÖL F., POLAT R., KARAASLAN C.

15th International Congress on Advances in Civil Engineering, Cyprus (Kktc), 6 - 08 September 2023

V. EFFECT OF HIGH TEMPERATURE ON NORMAL CONCRETE CONTAINING RECYCLED GEOPOLYMER AGGREGATES

ANIS S. A., POLAT R.

4. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS April 16-17, 2023 / Nevşehir-TÜRKİYE, Nevşehir, Turkey, 16 April 2023

- VI. **Kalsiyum Nitrat Ve Sodyum Tiyosiyanat Esaslı Antifriz Katkıların Kendiliğinden Yerleşen Taze Haldeki Betonların Don Direncine Etkisi,**
Öz A., Karagöl F., Polat R., Karaaslan C.
11TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Diyarbakır, Turkey, 29 December 2022
- VII. **Investigation of The Basic Properties of Recycled Geopolymer Aggregates**
Eryılmaz K., POLAT R.
1st International Conference on Engineering, Natural and Social Sciences, 20 - 23 December 2022
- VIII. **Acid and Sulfate Effect After High Temperature on Geopolymer Concrete Produced with Slag**
Karagöl F., Yazıcı N., Polat R.
First International Geopolymeric Composites Congress, Erzurum, Turkey, 29 - 30 December 2021, pp.90-121
- IX. **Effect of Antifreeze Additives on The Properties of Mortars Containing Silica Fume Exposed to Frost in Fresh State**
Öz A., Karagöl F., Polat R.
International Conference on Advances in Engineering, Architecture, Science and Technology, Erzurum, Turkey, 15 - 17 December 2021, pp.394-404
- X. **Investigation of the Properties of Perlite-Based Geopolymer Concrete with Red Mud**
TURHAN D., KARAGÖL F., POLAT R.
International Congress on the Phenomenological Aspects of Civil Engineering, Erzurum, Turkey, 20 - 23 July 2021
- XI. **The effect of waste mineral additives and long-term moisture insulation in volcanic ash-based geopolymer concretes**
Yegin Y., POLAT R., DEMİRBOĞA R., KARAGÖL F.
International Society of Affective Science and Engineering, Erzurum, Turkey, 7 - 09 April 2021
- XII. **The Effect Of Elevated Temperature On Self-Compacting Hybrid Fiber Concretes Containing Mineral Admixture**
3. ICOCCEE - CESME, April 24-27, 2018
ÖZ A., AYDIN A. C., POLAT R.
3. ICOCCEE-3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018
- XIII. **The Effect of Waste Tire Usage on Strength Properties of Polymer Concrete**
AKIN M. H., POLAT R.
International Conference on Multidisciplinary, Engineering, Science, Education and Technology (IMESET'17 Bitlis), 27 - 29 October 2017
- XIV. **The Effect of Set Accelerating Admixture on Mechanical and Physical Properties of Mortar Containing Mineral Additive**
TOSUN Y., POLAT R., KARAGÖL F.
Uluslararası Yapılarda Kimyasal Katkılar 5. Sempozyumu ve Sergisi Chemical Admixtures on Structures 5th International Symposium and Exhibition, 19 - 20 October 2017
- XV. **The Investigation of Properties of Mortars with Mineral and Antifreeze Additives Exposed to Freeze-Thaw**
KARAGÖL F., POLAT R., TOSUN Y.
Uluslararası Yapılarda Kimyasal Katkılar 5. Sempozyumu ve Sergisi Chemical Admixtures on Structures 5th International Symposium and Exhibition, 19 - 20 October 2017
- XVI. **Influence of Nano clay on Properties of Cement Paste and Mortar**
POLAT R., DEMİRBOĞA R., KARAGÖL F.
International Conference on Engineering And Natural Sciences, 24 - 28 May 2016 / Sarajevo, 24 - 28 May 2016
- XVII. **Comparison of Nano and Micro Sizes of CaO and MgO on the Physical and Mechanical Properties of Cement Paste and Mortar**
POLAT R., DEMİRBOĞA R., KARAGÖL F.
International Conference on Engineering And Natural Sciences, 24 - 28 May 2016 / Sarajevo, 24 - 28 May

2016

- XVIII. **The effect of nano MgO on the properties of cement composites A Review**
POLAT R., DEMİRBOĞA R., ELMAS B.
International Conference on Engineering Education and Research 2015, Medine, Saudi Arabia, 20 - 21 December 2015
- XIX. **Hidrolik Kireçli Harçlarda Uçucu Kül Kullanımı**
TOSUN Y., OLTULU M., POLAT R., ŞAHİN R., BİNGÖL A. F.
Tarihi Eserlerin Güçlendirilmesi ve Geleceğe Güvenle Devredilmesi, Turkey, 1 - 02 October 2015
- XX. **The Effects of Silica Modulus and Aging on Compressive Strength of NaOH Activated Pumice Based Geopolymer Composites**
MOHABBI YADOLLAHI M., DEMİRBOĞA R., POLAT R., MOTAMADNİA A.
International Conference on Civil Engineering Architecture Urban Sustainable Development, İslamic Azad University, Tebriz-Branch, 18-19 December 2013., 18 - 19 December 2013
- XXI. **Steel Fiber Effect in Bending and Compressive Strength Enhancement of Geopolymer Composite**
MOHABBI YADOLLAHI M., KAYGUSUZ M. A., POLAT R., DEMİRBOĞA R., GÜL R.
ECCM 15 – 15th European Conference on Composite Materials, Venice, Italy, 24-28 June 2012, 24 - 28 June 2012
- XXII. **The Effect of Initial Geometric Imperfection on the Load Bearing Capacity of Double Layer Barrel Vault Space Structures**
MOHABBI YADOLLAHI M., GÜL R., POLAT R., YADOLLAHI B. M., GÜL M. S.
Computational Methods in Structural Dynamics and Earthquake Engineering, III ECCOMAS Thematic Conference on, Corfu, Greece, 26–28 May 2011, COMPDYN 2011., 26 - 28 May 2011, pp.51-56
- XXIII. **Using Applicable and User Friendly Methods in Education**
MOHABBI YADOLLAHI M., GOHARKHANEH ASLİ F., GÜL R., POLAT R.
Madinah al-Munawarah, Kingdom of Saudi Arabia, 25-27, December 2011., 25 - 27 December 2011, pp.20-25
- XXIV. **Yapay Sinir Ağları Yöntemi ile Betonun Elastik ve Kayma Modüllerinin Bulunması**
YADOLLAHI M. M., DEMİRBOĞA R., POLAT R., KARAGÖL F., KAYGUSUZ M. A.
I. Ulusal Ege Kompozit Malzemeler Sempozyumu, İzmir, Turkey, 17 - 19 November 2011
- XXV. **Determining Appropriate Safety Factor for Space Trusses by Nonlinear Analysis and ANN Method**
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International ICCES MM 2011 September 6-10, 2011, Emirgan Hotel, Zonguldak, Turkey”, 6 - 10 September 2011
- XXVI. **Estimating Concrete Compressive Strength Produced By GFRP And Pozzolanic Materials Exposed To Fire Using Ann Method**
MOHABBI YADOLLAHI M., DEMİRBOĞA R., KAYGUSUZ M. A., POLAT R., KARAGÖL F.
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- XXVII. **The effects of the Urea on cold weather strength gaining of fresh concrete**
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- XXVIII. **The Influence of Expanded Perlite, Pumice Aggregate and Air Entraining Agent on the Concrete exposed to the Freezing – Thawing Damage**
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3rd International Symposium on Environment, Athens, Greece, 22 - 25 May 2008, pp.1-5

Supported Projects

Polat R., Ceylan M., Tavukçu A. Y., Dişçi E., Project Supported by Higher Education Institutions, Alabanda Antik Kenti Doğu Hamamındaki Harç ve Tuğla Örneklerinin Fiziksel Mekanik Petrografik ve Mikroyapı Özelliklerinin Araştırılması, 2022 - 2023

POLAT R., ERYILMAZ K., Project Supported by Higher Education Institutions, Geri dönüştürülmüş geopolimer agregalar ile sürdürülebilir beton üretiminin araştırılması, 2021 - 2023

POLAT R., TURHAN D., KARAGÖL F., Project Supported by Higher Education Institutions, Servis Ömrü Boyunca Sıcak Suya Maruz Kalan Çimento Esaslı Malzemelerin Mekanik ve Durabilite Özelliklerindeki Değişimin İncelenmesi, 2021 - 2023

KARAGÖL F., TURHAN D., YAZICI N., POLAT R., Project Supported by Higher Education Institutions, Taze halde soğuk havaya maruz kalan taze ve sertleşmiş haldeki geopolimer betonun mekanik ve içyapı özelliklerine antifriz katkıların etkisi, 2021 - 2023

Polat R., Karagöl F., Turhan D., Yazıcı N., Project Supported by Higher Education Institutions, Taze halde soğuk havaya maruz kalan taze ve sertleşmiş haldeki geopolimer betonun mekanik ve içyapı özelliklerine antifriz katkıların etkisi, 2021 - 2023

Polat R., Yener E., Project Supported by Higher Education Institutions, Uçucu Kül, Kalsiyum Alüminat Çimentosu ve Pomza ile Geopolimer Beton Üretimi, 2020 - 2021

POLAT R., DİKİCİOĞLU B., YILDIRİM T., ARSLAN S., POLAT G., Project Supported by Higher Education Institutions, Kendiliğinden Yerleşen Mineral Katkılı Lifli Betonların Yangın Sonrası Epoksi Enjeksiyonu ile Özelliklerinin İyileştirilmesi, 2019 - 2020

POLAT R., KARAGÖL F., YEGİN Y., DEMİRBOĞA R., Project Supported by Higher Education Institutions, Isparta Gölçük Yöresindeki Volkanik Külden Geopolimer Üretiminin Araştırılması, 2019 - 2020

POLAT R., SAĞSÖZ A. E., ÇOMAKLI S., YILDIZ A. T., Project Supported by Higher Education Institutions, Jeotermal tesislerin yapımında kullanılacak çimento tiplerinin betonun durabilitesine etkisinin araştırılması, 2019 - 2020

DEMİRBOĞA R., POLAT R., Project Supported by Higher Education Institutions, "ALKALİ AKTİVASYON METODUYLA POMZADAN GEOPOLİMER BETON ÜRETİMİ VE ÖZELLİKLERİNİN ARAŞTIRILMASI", 2012 - 2014

TUBITAK Project, Elâzığ Ferrokrom Cürufundan Alkali Aktivasyon Metoduyla Geopolimer Çimento Üretimini, 2011 - 2014

DEMİRBOĞA R., POLAT R., Project Supported by Higher Education Institutions, NANO MALZEMELERİN YÜKSEK MUKAVEMETLİ BETONLARIN OTOJENİK RÖTRELERİ ÜZERİNDEKİ ETKİLERİ", 2012 - 2013

DEMİRBOĞA R., POLAT R., Project Supported by Higher Education Institutions, GEOPOLİMER POMZA ÇİMENTOSUNUN HAMUR VE HARÇ ÖZELLİKLERİNİN ARAŞTIRILMASI, 2011 - 2013

GÜL R., POLAT R., Project Supported by Higher Education Institutions, YÜKSEK SICAKLIK HASARINA UĞRAMIŞ BETONARME KİRİŞLERİN FRP İLE ONARIMI VE GÜÇLENDİRİLMESİ., 2010 - 2012

DEMİRBOĞA R., POLAT R., Project Supported by Higher Education Institutions, YÜKSEK MUKAVEMETLİ BETONLARIN OTOJENİK RÖTRELERİNİN ARAŞTIRILMASI VE YAPAY SİNİR AĞLARI İLE MODELLENMESİ., 2010 - 2012

Activities in Scientific Journals

İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Committee Member, 2023 - Continues

Journal of the Institute of Science and Technology, Committee Member, 2021 - 2021

Cement Based Composites (CEBACOM), Editor, 2021 - 2021

Memberships / Tasks in Scientific Organizations

İnşaat Mühendisleri Odası, Member, 2006 - Continues

Scientific Refereeing

STRUCTURAL CONCRETE, SCI Journal, December 2023

STRUCTURAL CONCRETE, SCI Journal, December 2023

INTERNATIONAL JOURNAL OF CONCRETE STRUCTURES AND MATERIALS, SCI Journal, December 2023

Technopark, Ataturk University, Turkey, December 2023

STRUCTURAL CONCRETE, SCI Journal, November 2023

MATERIA ARQUITECTURA, SCI Journal, November 2023

JOURNAL OF TRAFFIC AND TRANSPORTATION ENGINEERING, SCI Journal, November 2023
CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, November 2023
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REVIEWS ON ADVANCED MATERIALS SCIENCE, SCI Journal, October 2023
JOURNAL OF BUILDING ENGINEERING, SCI Journal, September 2023
CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, March 2023
JOURNAL OF BUILDING ENGINEERING, National Scientific Refreed Journal, March 2023
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CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, January 2023
Kocaeli Journal of Science and Engineering, Other Indexed Journal, December 2022
JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, October 2022
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JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, October 2022
JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCI-E, August 2022
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JOURNAL OF BUILDING ENGINEERING, SCI Journal, November 2021
Gazi University Journal of Science Part A: Engineering and Innovation, Other Indexed Journal, November 2021
ADVANCES IN CIVIL ENGINEERING, Journal Indexed in SCI-E, October 2021
El-Cezeri, Other Indexed Journal, September 2021
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, September 2021
COLD REGIONS SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, July 2021
JOURNAL OF CENTRAL SOUTH UNIVERSITY, Journal Indexed in SCI-E, July 2021
JOURNAL OF CENTRAL SOUTH UNIVERSITY, SCI Journal, May 2021
STRUCTURAL CONCRETE, Journal Indexed in SCI-E, April 2021
STRUCTURAL CONCRETE, SCI Journal, March 2021
Gümüşhane University Journal of Science and Technology, Other Indexed Journal, February 2021
Construction And Building Materials, Journal Indexed in SCI-E, February 2021
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, Other Journals, December 2020
JOURNAL OF BUILDING ENGINEERING, SCI Journal, December 2020
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, Other journals, December 2020
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other journals, December 2020
WASTE AND BIOMASS VALORIZATION, SCI Journal, October 2020
Cement Based Composites, Other Journals, October 2020
CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, October 2020
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Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Journals, June 2020
CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, June 2020
CONSTRUCTION AND BUILDING MATERIALS, National Scientific Refreed Journal, May 2020
Civil Engineering Beyond Limits, Other Journals, May 2020
CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, May 2020
STRUCTURAL CONCRETE, SCI Journal, April 2020
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Erzincan University Journal of Science and Technology, Other Indexed Journal, February 2020
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergis, Other Indexed Journal, February 2020
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, January 2020
Cement Based Composites, Other Indexed Journal, January 2020
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, December 2019
STRUCTURAL CONCRETE, Journal Indexed in SCI-E, December 2019
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CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, September 2019
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ULUSLARARASI MÜHENDİSLİK ARAŞTIRMA VE GELİŞTİRME DERGİSİ, Other Indexed Journal, June 2019
STRUCTURAL CONCRETE, Journal Indexed in SCI-E, March 2019
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CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, January 2019
Construction and Building Materials, SCI Journal, November 2018
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Construction and Building Materials, SCI Journal, August 2018
Techno- Press-Advances in Concrete Construction, An International Journal, Other Indexed Journal, July 2018
Construction and Building Materials, SCI Journal, July 2018
Construction and Building Materials, SCI Journal, May 2018
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2018
Construction and Building Materials, SCI Journal, May 2018
Cold Region Science and Tecnology, SCI Journal, April 2018
Construction and Building Materials, SCI Journal, April 2018
Cold Region Science and Tecnology, SCI Journal, February 2018
Dergi park_Academic Platform-Journal of Engineering and Science, Other Indexed Journal, February 2018
Chemical Papers, SCI Journal, January 2018
Construction and Building Materials, SCI Journal, January 2018
TÜRK DOĞA VE FEN DERGİSİ, National Scientific Refreed Journal, October 2017
International Journal of Sustainable Built Enviroment, SCI Journal, September 2017
International Journal of Sustainable Built Enviroment, SCI Journal, August 2017
Construction and Building Materials, SCI Journal, July 2017
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Cold Region Science and Tecnology, SCI Journal, March 2017
Cold Region Science and Tecnology , SCI Journal, February 2017
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Cold Region Science and Tecnology, SCI Journal, December 2016
Cold Region Science and Tecnology, SCI Journal, December 2016
Cold Region Science and Tecnology, SCI Journal, November 2016
Structural Engineering and Mechanics, An International Journal, SCI Journal, October 2016
Construction and Building Materials, SCI Journal, April 2015
Cold Region Science and Tecnology, SCI Journal, March 2015
Cold Region Science and Tecnology, SCI Journal, March 2015

Tasks In Event Organizations

Sarıkaya M., Polat R., Akköse A., Şenkuytu E., 11. Uluslararası Mardin Artuklu Bilimsel Araştırmalar Kongresi, Scientific Congress, Mardin, Turkey, Aralık 2023

Metrics

Publication: 102

Citation (WoS): 547

Citation (Scopus): 660

H-Index (WoS): 11

H-Index (Scopus): 11

Congress and Symposium Activities

First International Geopolymeric Composites Congress, Erzurum, Türkiye, 29 - 30 Aralık 2021, ss.90-121 , Attendee, Erzurum, Turkey, 2022

International Conference on Engineering and Natural Sciences, Attendee, Sarajevo, Bosnia And Herzegovina, 2016

International Conference on Engineering Education and Research, Attendee, Al-Madinah, Saudi Arabia, 2015

5. Tairihi Eserlerin Güçlendirilmesi ve Geleceğe Güvenle Devredilmesi Sempozyumu, Attendee, Erzurum, Turkey, 2015

FIBRE CONCRETE 2011, Attendee, Praha, Czech Republic, 2011

Scholarships

TUBİTAK Projesi Bursiyer, TUBİTAK, 2012 - 2014

Awards

Polat R., Influence of singular and binary nanomaterials on the physical, mechanical and durability properties of mortars subjected to elevated temperatures and freeze-thaw cycles, Tubitak Ulakbim, November 2021

Polat R., Yayın Teşvik-Mechanical and physical behavior of cement paste and mortar incorporating nano-CaO, Tubitak-Ulakbim, May 2019

Polat R., Yayın Teşvik-The influence of expanded perlite aggregate on compressive strength, linear autogenous shrinkage, restrained shrinkage, heat of hydration of cement-based materials, Tubitak-Ulakbim, April 2019

POLAT R., Yayın Teşvik-The influence of lightweight aggregate, freezing-thawing procedure and air entraining agent on freezing-thawing damage, TUBİTAK-ULAKBİM, November 2018

POLAT R., Yayın Teşvik-The effect of nano-MgO on the setting time, autogenous shrinkage, microstructure and mechanical properties of high performance cement paste and mortar, TUBİTAK-ULAKBİM, November 2017

POLAT R., The effect of antifreeze additives on fresh concrete subjected to freezing and thawing cycles, TUBİTAK-ULAKBİM, July 2016

POLAT R., Yayın Teşvik-Effects of nano and micro size of CaO and MgO, nano-clay and expanded perlite aggregate on the autogenous shrinkage of mortar, TUBİTAK-ULAKBİM, May 2015

POLAT R., Yayın Teşvik-The effects of urea on strength gaining of fresh concrete under the cold weather conditions, TUBİTAK-ULAKBİM, August 2014

POLAT R., Yayın Teşvik-Effect of glass fiber-reinforced polymer and epoxy injection on compressive strength of elevated

temperature damaged concrete, TUBİTAK-ULAKBİM, June 2013

POLAT R., Yayın Teşvik-The influence of calcium nitrate as antifreeze admixture on the compressive strength of concrete exposed to low temperatures, TUBİTAK-ULAKBİM, June 2013

POLAT R., Yayın Teşvik-The influence of lightweight aggregate on the physico-mechanical properties of concrete exposed to freeze-thaw cycles, TUBİTAK-ULAKBİM, February 2010

Non Academic Experience

Company, Özel Ticari Firmalar, İnşaat Mühendisi/Şirket Müdürü