

HASAN DILBAS

ASSOC. PROF.

Email : hasandilbas@yyu.edu.tr

Other Email : hasandilbas@gmail.com

Office Phone : [+90 444 5 065](tel:+904445065) Extension: 28197

Address : Yüzüncü Yıl Üniversitesi Mühendislik Fakültesi

İnşaat Mühendisliği Bölümü 65080 Kampüs Van Türkiye

International Researcher IDs

ScholarID: 0rg6jj0AAAAJ

ORCID: 0000-0002-3780-8818

Publons / Web Of Science ResearcherID: D-5946-2014

ScopusID: 56104987900

Yoksis Researcher ID: 18351



Learning Knowledge

Doctorate 2014 - 2020	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering, Turkey
Postgraduate 2011 - 2014	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering, Turkey
Undergraduate 2007 - 2011	Erciyes University, Mühendislik Fakültesi, İnşaat Mühendisliği , Turkey

Dissertations

Doctorate, Investigation of the Effect of Recycled Aggregate Use on the Concrete Properties, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering, 2020

Postgraduate, An examination on mechanical behaviour of a cantilever beam produced with recycled aggregate concrete, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering, 2014

Academic Titles / Tasks

Assistant Professor 2021 - Continues	Van Yüzüncü Yıl University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
Research Assistant PhD 2020 - 2021	Van Yüzüncü Yıl University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
Research Assistant 2012 - 2020	Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department

Supported Projects

1. Dilbas H., Project Supported by Higher Education Institutions, Determination of TOPSIS Weight Coefficients of Light, Normal and Heavy Concretes by Creating a Literature Database, 2021 - 2022
2. Çakır Ö., Dilbas H., Atış C. D., Project Supported by Higher Education Institutions, İyileştirme Uygulanmış Geri Kazanılmış Agrega Kullanımının Beton Özelliklerine Etkisinin İncelenmesi, 2017 - 2019

Awards

1. Birdal F., Dilbas H., Sosyal M. K., Şahin E., Köseömrü E., Modüler Yapıların İnşası için Atık Betondan Isı Verimli Hafif Kompozit Panel Eleman Üretimi, Anadolu Üniversiteler Birliği, November 2023

Jury Memberships

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, May, 2023
Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, June, 2022
Post Graduate, Post Graduate, Kırşehir Ahi Evran Üniversitesi, July, 2021
Post Graduate, Post Graduate, Kırşehir Ahi Evran Üniversitesi, July, 2021

Designed Lessons

Dilbas H., Recycled Aggregate Concrete, Doctorate, 2023 - 2024
Dilbas H., Data Analytics for Engineers, Doctorate, 2020 - 2021
Dilbas H., Durability of Built-in Space Structures, Doctorate, 2020 - 2021

Designed Programs

Tapan M., Güler S., Muvaflık M., Erdil B., Aydın M., Korkut F., Yaltay N., Dilbas H., Doctorate, Civil Engineering Doctorate Program, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Red-mud additive geopolymer composites with eco-friendly aggregates**
UYŞAL M., Dilbas H., ÇOŞGUN T., Bendjilali F.
Construction and Building Materials, vol.425, 2024 (SCI-Expanded)
2. **Durability Performance of Fiber Reinforced Metakaolin-Based and Red Mud-Fly Ash-Slag-Activated Geopolymers with Recycled Aggregates**
Yılmaz A., Ergün S., Uysal M., Dilbas H., Aygörmöz Y., Canpolat O.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.48, pp.13967-13986, 2023 (SCI-Expanded)
3. **Optimizing the treatment of recycled aggregate (>4 mm), artificial intelligence and analytical approaches**

Dilbas H.

MATERIALS, vol.16, no.8, pp.1-14, 2023 (SCI-Expanded)

4. **Metakaolin-Based and Blast Furnace Slag-Activated Geopolymer Cement with Waste Powders**
Kabirova A., Husem M., Dilbas H., Uysal M., Canpolat O.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.47, no.2, pp.891-907, 2023 (SCI-Expanded)
5. **Effect of Cement Type and Water-to-Cement Ratio on Fresh Properties of Superabsorbent Polymer-Modified Cement Paste**
Dilbas H.
MATERIALS, vol.16, pp.1-15, 2023 (SCI-Expanded)
6. **Relative Performance of Limestone, Marble, and Basalt Powders in Replacement of a Recycled Fine Aggregate from Red Mud and Metakaolin-Based Geopolymer Mortar**
Chakkor O., Altan M. F., CANPOLAT O., Dilbas H., UYSAL M.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.46, no.4, pp.2961-2974, 2022 (SCI-Expanded)
7. **Physical and Mechanical Properties of Treated Recycled Aggregate Concretes: Combination of Mechanical Treatment and Silica Fume**
Dilbas H., ÇAKIR Ö.
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.33, no.6, 2021 (SCI-Expanded)
8. **Mineral Addition and Mixing Methods Effect on Recycled Aggregate Concrete**
Dilbas H., GÜNEŞ M. Ş.
MATERIALS, vol.14, no.4, 2021 (SCI-Expanded)
9. **Durability properties of treated recycled aggregate concrete: Effect of optimized ball mill method**
ÇAKIR Ö., Dilbas H.
CONSTRUCTION AND BUILDING MATERIALS, vol.268, 2021 (SCI-Expanded)
10. **Influence of basalt fiber on physical and mechanical properties of treated recycled aggregate concrete**
Dilbas H., Çakır Ö.
Construction and Building Materials, vol.254, 2020 (SCI-Expanded)
11. **An experimental investigation on fracture parameters of recycled aggregate concrete with optimized ball milling method**
Dilbas H., Çakır Ö., Yıldırım H.
Construction and Building Materials, vol.252, 2020 (SCI-Expanded)
12. **Experimental investigation on properties of recycled aggregate concrete with optimized Ball Milling Method**
Dilbas H., Cakir O., Atis C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.212, pp.716-726, 2019 (SCI-Expanded)
13. **Silica fume effect on fracture parameters and cracking pattern maps of recycled aggregate concrete**
ÇAKIR Ö., DİLBAS H.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.1, pp.137-154, 2019 (SCI-Expanded)
14. **Recycled Aggregate Concretes (RACs) for Structural Use: An Evaluation on Elasticity Modulus and Energy Capacities**
Dilbas H., Çakır Ö., Simsek M.
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.15, pp.247-261, 2017 (SCI-Expanded)
15. **An investigation on mechanical and physical properties of recycled aggregate concrete (RAC) with and without silica fume**
Dilbas H., Simsek M., Çakır Ö.
CONSTRUCTION AND BUILDING MATERIALS, vol.61, pp.50-59, 2014 (SCI-Expanded)

Articles Published in Other Journals

1. **Rheology of Superabsorbent Polymer-Modified and Basalt Fiber-Reinforced Cement Paste with Silica Fume: Response Surface Methodology**
Dilbas H.
Journal of sustainable construction materials and technologies (Online), vol.9, no.1, pp.60-71, 2024 (Scopus)
2. **Süper Emici Polimer Katkılı Harçların Isıl İşlem ile Hava Küründe Mekanik Özellikleri**
Dilbas H., Birdal F.
Sürdürülebilir Mühendislik Uygulamaları ve Teknolojik Gelişmeler Dergisi, vol.6, no.1, pp.45-50, 2023 (Peer-Reviewed Journal)
3. **Mechanical Performance Improvement of Super Absorbent Polymer-Modified Concrete**
Dilbas H., Birdal F., Parim C., Güneş M. Ş.
METHODS, vol.10, pp.1-13, 2023 (ESCI)
4. **Concrete Mixture Design with Decision Tree Algorithm for Low, Medium and High Strengths**
Parim C., Güneş M. Ş., Dilbas H.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.37, no.4, 2022 (Peer-Reviewed Journal)
5. **An investigation on effect of aggregate distribution on physical and mechanical properties of recycled aggregate concrete (RAC)**
Dilbas H.
Sustainable Construction Materials and Technologies, vol.7, no.2, pp.108-118, 2022 (ESCI)
6. **Application of Finite Element Method on Recycled Aggregate Concrete and Reinforced Recycled Aggregate Concrete: A Review**
Dilbas H.
Sustainable Construction Materials and Technologies, vol.6, no.4, pp.173-191, 2021 (Peer-Reviewed Journal)
7. **An Investigation on Aggregate Distribution in Concrete**
Dilbas H.
International Journal of Concrete Technology, vol.2, no.7, pp.1-7, 2021 (Peer-Reviewed Journal)
8. **Physical and Geomechanical Properties of Recycled Aggregate Sourced by Various Grade Concrete Wastes**
Dilbas H.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.36, no.1, pp.121-130, 2021 (Peer-Reviewed Journal)
9. **A comparative analysis of elasticity modulus of recycled aggregate concrete with silica fume**
Çakır Ö., Dilbas H.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.24, pp.1069-1078, 2018 (ESCI)
10. **Abrasion Resistance, Compressive Strength, and Elasticity Modulus of Recycled Aggregate Concrete (RAC) Included Lower Quality Recycled Aggregate With and Without Silica Fume**
Çakır Ö., Dilbas H.
International Journal of Concrete Technology, vol.1, no.2, pp.1-18, 2016 (Peer-Reviewed Journal)
11. **Fracture and Failure of Recycled Aggregate Concrete (RAC) – A Review**
Dilbas H., Çakır Ö.
International Journal of Concrete Technology, vol.1, no.1, pp.31-48, 2016 (Peer-Reviewed Journal)
12. **Beton Mukavemet Deneyleri Değerlendirmesi için Bir İstatistiksel Çalışma**
Dilbas H., Erkilic H., Saraylı S., Haktanır T.
Yapı Dünyası Dergisi, no.178, pp.25-31, 2011 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Sustainable Modular Building Brick or Panel Element Made of Waste Concrete and Heat Insulating**

Materials

Birdal F., Dilbas H., Köseömr E., Şahin E., Soyol M. K.

in: International Studies in Engineering, AA, Editor, Serüven Yayınevi, Ankara, pp.90-102, 2024

2. Fuzzy HD Method

Dilbas H.

in: MULTIDISCIPLINARY INSIGHTS: GEOTHERMAL WELLS, PRESERVATION, ENGINEERING, AND CHEMICAL PROCESSES, Merivan Şaşmaz, Editor, İksad Yayınevi, Ankara, pp.239-247, 2023

Refereed Congress / Symposium Publications in Proceedings

1. 3D LAZER TARAMA TEKNOLOJİSİ YARDIMIYLA HIZLI DİJİTAL YAPI MODELİ - HASAR TESPİTİ VE DEPREM PERFORMANS ANALİZİ

Şahin E., Soyol M. K., Köseömr E., Birdal F., Dilbas H.

Hitit Üniversitesi Bilim & Teknoloji Festivali, Çorum, Turkey, 8 - 09 March 2024

2. INVESTIGATION OF THE MATERIAL EFFECT OF MASONRY BUILDINGS ON EARTHQUAKE PERFORMANCE AND SUSTAINABLE NEW DESIGN APPROACHES

Birdal F., Dilbas H.

AHI EVRAN III. INTERNATIONAL CONFERENCE ON SCIENTIFIC, Baku, Azerbaijan, 3 - 04 May 2023, pp.323

3. SOLUTION PROPOSAL FOR DISPOSAL OF WASTE CONCRETE IN VAN AND ITS ENVIRONMENT

Dilbas H.

VAN'IN GELECEĞİ SEMPOZYUMU, Van, Turkey, 1 - 02 December 2022

4. A RESEARCH ON LOW SPECIFIC WEIGHT (1.7) SUSTAINABLE/GREEN LIGHT WEIGHT CONCRETE WITH RECYCLED AGGREGATE

Dilbas H., Birdal F.

AHI EVRAN II. INTERNATIONAL CONFERENCE ON SCIENTIFIC, Kırşehir, Turkey, 21 - 23 October 2022, pp.117-124

5. A STUDY ON THE DETERMINATION OF CONCRETE WEIGHTING COEFFICIENTS REQUIRED IN THE USE OF DECISION SUPPORT SYSTEMS

Dilbas H.

AHI EVRAN II. INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCH, Kırşehir, Turkey, 21 - 23 October 2022, pp.108-116

6. ATIK BETONUN İNŞAAT UYGULAMALARINDA KULLANILABİLİRLİĞİ

Dilbas H.

MİMARLIK, İNŞAAT VE ÇEVRE ZİRVESİ, Van, Turkey, 20 May 2022, vol.0, no.0, pp.10

7. Impressive Strength of Geopolymer Paste Produced with Pumice and Colemanite Waste

Yaltay N., Dilbas H., Aydın M., Taymuş R. B.

International Pumice and Perlite Symposium, Bitlis, Turkey, 4 - 06 November 2021, pp.11

8. Effect of Spring Shaped Steel Fiber on Mechanical and Fracture Properties of Cement Paste

Dilbas H.

International Conference on Civil Engineering and Architecture Design, South Carolina, United States Of America, 3 - 04 August 2021, pp.10

9. A New Decision Support System Proposal For Evaluating Concrete Test Results: HD Method

Dilbas H.

2nd International Conference on Access to Recent Advances in Engineering and Digitalization, Kayseri, Turkey, 10 - 12 March 2021

10. Effect of Concrete Mixing Methods on Statistical Parameters of Recycled Aggregate Concrete

Dilbas H.

3RD INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS (ICONSOS), İstanbul, Turkey, 8 - 10 January 2021

11. Yapı Yıkıntı Atıklarının Geri Kazanımı - Terrazo Karo Üretimi

Şahin İ., Çakır Ö., Dilbas H.

- 10.Uluslararası Beton Kongresi, Bursa, Turkey, 01 May 2019, pp.592-600
12. **Kırıcı Tipinin ve Silis Dumanının Geri Kazanılmış Agregalı Betona Etkisi**
Dilbas H., Çakır Ö.
10.Uluslararası Beton Kongresi, Bursa, Turkey, 01 May 2019, pp.330-337
13. **GERİ KAZANILMIŞ AGREGALARIN MEKANİK ÖĞÜTME YÖNTEMİ İLE İYİLEŞTİRİLMESİ**
Dilbas H., Çakır Ö.
Beton 2017 Kongresi, İstanbul, Turkey, 14 April 2017, pp.458-467
14. **Kentsel Dönüşüm Sonucu Oluşan Molozların Geri Dönüşümle Betonda Kullanımı – Silis Dumanı Katkılı Geri Kazanılmış Agregalı Betonlar**
Dilbas H., Şimşek M., Çakır Ö.
İMO 9.Ulusal Beton Kongresi, Antalya, Turkey, 01 April 2015, pp.387-398
15. **An Approach for Construction and Demolition (C&D) Waste Disposal through Concrete Using Silica Fume**
Dilbas H., Çakır Ö., Şimşek M.
EurAsia Waste Management Symposium, İstanbul, Turkey, 28 - 30 April 2014, pp.1-2

Academic and Administrative Experience

2022 - Continues	Member of Sustainable Campus Comission	Van Yüzüncü Yıl University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
2022 - Continues	Member of Quality Coordination Commission	Van Yüzüncü Yıl University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
2021 - Continues	Head of Building Materials Division	Van Yüzüncü Yıl University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
2021 - 2024	Faculty Assistant Professor Representative	Van Yüzüncü Yıl University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
2021 - 2022	Deputy Head of Department	Van Yüzüncü Yıl University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü

Courses

Programming, Undergraduate, 2023 - 2024, 2022 - 2023
Building Materials, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Sustainable Construction Materials, Undergraduate, 2023 - 2024, 2022 - 2023
Undergraduation Thesis, Undergraduate, 2023 - 2024, 2022 - 2023
Matlab Applications in Engineering, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Sustainable Construction Technologies, Doctorate, 2023 - 2024
Materials Science, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Introduction to Computer Science I, Undergraduate, 2023 - 2024, 2022 - 2023
Durability of Concrete, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Recycled Aggregate Concrete, Doctorate, 2023 - 2024
Durability of Concrete with/withour Reinforcement, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Advising Theses

Tapan M., Dilbas H., Effect of Number of Neurons and Layers in Artificial Neural Network and Membership and Defuzzification Functions on Fuzzy Logic for Prediction of Lateral Confinement Coefficient of Carbon Fiber Reinforced Polymer (CFRP) Strengthened Columns, Postgraduate, E.Kaynar(Student), Continues

Dilbas H., Sustainable Engineering Properties Based on Building Demolition Waste, Waste Marble Powder, Pumice Powder and Super Absorbent Polymer Physical Mechanical and Internal Structure Properties of Enhanced Composite (ECC), Postgraduate, A.Can(Student), Continues

Dilbas H., Physical Mechanical and Internal Structure Properties of Laboratory Waste Concrete, Waste Marble Powder, Pumice Powder and Super Absorbent Polymer Based Sustainable Engineering Properties Enhanced Composite (ECC), Postgraduate, J.Ataman(Student), Continues

Patent

Dilbas H., WATER JET DEVICE FOR IMPROVING RECOVERED AGGREGATE AND METHOD OF OBTAINING IMPROVED RECOVERED AGGREGATE, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2021 010096 , Standard Registration, 2023

Dilbas H., DÖKÜLMEZ YAKMAZ ÇAYDANLIK/SEMAVER, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2021 006607 , Standard Registration, 2022

Dilbas H., VERİMLİ ISITMA KABI, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2016 17581 , Standard Registration, 2017

Activities in Scientific Journals

International Journal of Concrete Technology, Committee Member, 2014 - Continues

International Journal of Structural Engineering and Analysis, Committee Member, 2014 - Continues

Scientific Refereeing

CASE STUDIES IN CONSTRUCTION MATERIALS, Journal Indexed in ESCI, February 2023

waste management, SCI Journal, August 2022

Journal of Sustainable Construction Materials and Technologies, Other Indexed Journal, June 2022

IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY - TRANSACTIONS OF CIVIL ENGINEERING, SCI Journal, April 2022

Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yıl University, Turkey, April 2022

CASE STUDIES IN CONSTRUCTION MATERIALS, SCI Journal, March 2022

Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, February 2022

Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yıl University, Turkey, December 2021

JOURNAL OF MORAL EDUCATION, SCI Journal, September 2021

ANNUAL REVIEW OF MATERIALS RESEARCH, SCI Journal, August 2021

METALLOMICS, National Scientific Refreed Journal, August 2021

BERLINER JOURNAL FÜR SOZIOLOGIE, Journal Indexed in SCI-E, June 2021

JOURNAL OF MORAL EDUCATION, SCI Journal, May 2021

BERLINER JOURNAL FÜR SOZIOLOGIE, SCI Journal, April 2021

PERSONALITY & SOCIAL PSYCHOLOGY REVIEW, National Scientific Refreed Journal, March 2021

ANAIS DA ACADEMIA BRASILEIRA DE CIÊNCIAS, SCI Journal, July 2020

ANAIS DA ACADEMIA BRASILEIRA DE CIÊNCIAS, SCI Journal, January 2020

NED University Journal of Research, Other Indexed Journal, March 2019

SN APPLIED SCIENCES, Other Indexed Journal, February 2019

JOURNAL OF MORAL EDUCATION, SCI Journal, February 2019

Tasks In Event Organizations

Dilbas H., 2. International Pumice and Perlite Symposium (PuPeS'23), Scientific Congress, Nevşehir, Turkey, Eylül 2023

Dilbas H., 3rd International Conference on Advanced Materials and Ecological Environment, Scientific Congress, Huaibei, China, Aralık 2021

Dilbas H., 1. International Pumice and Perlite Symposium (PuPeS'21), Scientific Congress, Bitlis, Turkey, Kasım 2021

Dilbas H., International Conference on Building Materials and Civil Engineering (BMCE 2016), Scientific Congress, Wuhan, China, Aralık 2016

Scientific Research / Working Group Memberships

Geop, Van Yüzüncü Yıl University, Turkey, <https://avesis.yyu.edu.tr/arastirma-grubu/geop>, 2021 - Continues

Tak, Van Yüzüncü Yıl University, Turkey, <https://avesis.yyu.edu.tr/arastirma-grubu/tak>, 2021 - Continues

Matstat, Van Yüzüncü Yıl University, Turkey, <https://avesis.yyu.edu.tr/arastirma-grubu/matstat>, 2021 - Continues

Betger, Van Yüzüncü Yıl University, Turkey, <https://avesis.yyu.edu.tr/arastirma-grubu/betger>, 2013 - Continues

Metrics

Publication: 44

Citation (WoS): 301

Citation (Scopus): 480

H-Index (WoS): 6

H-Index (Scopus): 7

Research Areas

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