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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, Türkiye 2002 - 2005

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

İnşaat Mühendisliği, Yapı Malzemesi, Yapı Malzemeleri, Beton Teknolojisi, Yapı Bileşenleri ve Malzemeleri, Kompozit Malzemeler, Malzeme Mekaniği, Yalıtım Malzemeleri ve Uygulamaları, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2017 - Devam Ediyor

Prof. Dr., Gazi Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2017 - 2017

Doç. Dr., Gazi Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2013 - 2017

Doç. Dr., Gaziantep Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü (İngilizce), 2010 - 2013

Yrd. Doç. Dr., Gaziantep Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü (İngilizce), 2007 - 2010

Uzman, University of Michigan, Mühendislik Fakültesi, İnşaat Ve Çevre Mühendisliği, 2006 - 2007

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2002 - 2006

Araştırma Görevlisi, Gaziantep Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü (İngilizce), 1999 - 2002

Akademik İdari Deneyim

Gaziantep Üniversitesi, Mühendislik Fakültesi, 2012 - 2013

Gaziantep Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü (İngilizce), 2009 - 2013

Gaziantep Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü (İngilizce), 2009 - 2013

Yönetilen Tezler

ŞAHMARAN M., YÜKSEK KARBONDİOKSİT KONSANTRASYONLU ORTAMLARDA ÇİMENTO BAĞLAYICILI KOMPOZİTLERDE HASARLARIN KENDİLİĞİNDEN İYİLEŞMESİ, Yüksek Lisans, A.HAMIDZADEH(Öğrenci), 2018

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ŞAHMARAN M., Naylon esaslı liflerin çimento bağlayıcılı kompozitlerin özellikleri üzerine etkileri, Doktora, F.EMAMI(Öğrenci), 2017

ŞAHMARAN M., Nano malzemeler ile modifiye edilmiş yüksek performanslı hibrid lif donatılı betonlar, Doktora, S.DEMİRHAN(Öğrenci), 2017

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ŞAHMARAN M., Türkiye Afet Müdahale Hizmetleri Yönetmeliği çerçevesinde acil yıkım uygulama rehberinin geliştirilmesi, Yüksek Lisans, H.ÖZKILIÇ(Öğrenci), 2017

ŞAHMARAN M., Kendiliğinden algılama kabiliyetine sahip çimento bağlayıcılı kompozitlerin büyük ölçekli yapısal kırış elemanlarda performansları, Doktora, M.HAROON(Öğrenci), 2017

ŞAHMARAN M., Özellikleri nano boyutta modifiye edilmiş yüksek hacimde uçucu kül içeren tasarlanmış çimento bağlayıcılı kompozitler, Yüksek Lisans, Ü.EROL(Öğrenci), 2017

ŞAHMARAN M., The effect of nanosilica on the properties of pumice incorporated blended cements, Yüksek Lisans, B.DÜNDAR(Öğrenci), 2016

ŞAHMARAN M., Multifunctional cementitious composites for damage- resistant highway structures, Doktora, A.MAJEED(Öğrenci), 2016

ŞAHMARAN M., Türkiye inşaat yıkıntı atık yönetim sisteminin geliştirilmesi, Yüksek Lisans, Ü.POYRAZ(Öğrenci), 2016

ŞAHMARAN M., Sürdürülebilir altyapılar için yeni nesil akıllı çimento bağlayıcılı kompozit malzemelerin geliştirilmesi, Doktora, G.YILDIRIM(Öğrenci), 2016

ŞAHMARAN M., Nano malzemelerin çimento bağlayıcılı kompozitlerin mekanik özellikleri üzerine etkileri, Yüksek Lisans, M.HATAM(Öğrenci), 2016

ŞAHMARAN M., Performance-based design of high performance fiber reinforced cementitious composites for repair of rigid pavement and other infrastructure, Doktora, M.KASSIM(Öğrenci), 2016

ŞAHMARAN M., Detecting damage and self-healing in cementitious composites using electrical methods for protection of critical infrastructures, Doktora, Ü.GÜLSÜM(Öğrenci), 2016

ŞAHMARAN M., Effects of different types of carbon based materials on electrical properties of cementitious composites, Yüksek Lisans, O.ÖZTÜRK(Öğrenci), 2015

ŞAHMARAN M., Mevcut yapıların risk durumunun belirlenmesi için 6306 sayılı kanun kapsamında yer alan hızlı değerlendirme tekniğinin uygulanması, Yüksek Lisans, Z.TOZLU(Öğrenci), 2015

ŞAHMARAN M., Çimento bağlayıcılı kompozitlerde kendiliğinden iyileşme kabiliyetinin tahribatsız test yöntemleri ile değerlendirilmesi, Yüksek Lisans, B.TOLUNAY(Öğrenci), 2015

ŞAHMARAN M., INFLUENCE OF HYDRATED LIME ADDITION ON SELF-HEALING CAPABILITY OF HIGH VOLUME FLY ASH INCORPORATED CEMENTITIOUS COMPOSITES, Yüksek Lisans, H.UNIS(Öğrenci), 2014

ŞAHMARAN M., EFFECT OF CHEMICAL ADDITION ON THE COMPRESSIVE STRENGTH OF SLAG-CEMENTS, Yüksek Lisans, H.HAMA(Öğrenci), 2014

ŞAHMARAN M., Assessing the efficiency of pre-soaked expanded perlite usage incorporation on the self-healing ability of cementitious composites, Yüksek Lisans, K.AHMED(Öğrenci), 2013

ŞAHMARAN M., Repeatability of self-healing in cementitious composites, Yüksek Lisans, R.AZAD(Öğrenci), 2013

ŞAHMARAN M., Design of crack free, durable and ductile concrete for sustainable highway rigid pavement overlays, Doktora, H.ERHAN(Öğrenci), 2013

ŞAHMARAN M., High early strength ductile cementitious composites with characteristics of low early age shrinkage, Yüksek Lisans, Y.EMRE(Öğrenci), 2013

ŞAHMARAN M., Bond characteristics between high early strength engineered cementitious composites and substrates, Yüksek Lisans, R.KHALİD(Öğrenci), 2013

ŞAHMARAN M., Ultra-thin engineered cementitious composites overlay systems for rehabilitation of rigid concrete pavements, Yüksek Lisans, H.JASHAMİ(Öğrenci), 2012

ŞAHMARAN M., Dimensional stability of engineered cementitious composites, Doktora, S.BAHADIR(Öğrenci), 2012

ŞAHMARAN M., Effect of internal curing caused by saturated lightweight aggregate on the properties of engineered cementitious composites, Yüksek Lisans, K.SULAIMAN(Öğrenci), 2012

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ŞAHMARAN M., Rheological properties of engineered cementitious composites containing fly ash, Yüksek Lisans, Z.BİLİCİ(Öğrenci), 2011

ŞAHMARAN M., Effect of aggregate size and amount on the mechanical properties of engineered cementitious composites incorporating fly ash and slag, Yüksek Lisans, M.TURHAN(Öğrenci), 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Applicability of 3D concrete printing technology in building construction with different architectural design decisions in housing**
TAKVA Ç., Top S. M., Gokgoz B. I., Gebel S., İLERİSOY Z. Y., İlcan H., ŞAHMARAN M.
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- II. **Optimization and Characterization of Cementitious Composites Combining Maximum Amounts of Waste Glass Powder and Treated Glass Aggregates**
Mezaouri S., Kameche Z. E., Siad H., Lachemi M., ŞAHMARAN M., Houmadi Y.
INTERNATIONAL JOURNAL OF CONCRETE STRUCTURES AND MATERIALS, cilt.18, sa.1, 2024 (SCI-Expanded)
- III. **Mechanical, physical and durability performance of engineered cementitious composites prepared with calcium aluminate cement**
Zokaei S., Siad H., Lachemi M., Mahmoodi O., Ozcelikci E., ŞAHMARAN M.
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- IV. **Variation of microbial self-healing performance of cementitious composites with their biogranule content**
SÖNMEZ TUĞLUCA M., ERŞAN Y. Ç., ŞAHMARAN M.
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- V. **Combined application of CDWs as precursors and aggregates in geopolymer composites: A comprehensive rheological analysis**
Mahmoodi O., Siad H., Lachemi M., ŞAHMARAN M.
JOURNAL OF BUILDING ENGINEERING, 2024 (SCI-Expanded)
- VI. **Enhancing self-healing properties of engineered cementitious composites through the application of super-sulfated cement**
Zokaei S., Siad H., Lachemi M., Mahmoodi O., ŞAHMARAN M.
MAGAZINE OF CONCRETE RESEARCH, 2024 (SCI-Expanded)
- VII. **Assessment of sulphate resistance in fresh-to-fresh hybrid systems: a comparative study between SCC/ECC and SCC/UHPFRC**
Baloch W. L., Siad H., Lachemi M., ŞAHMARAN M.
MAGAZINE OF CONCRETE RESEARCH, 2024 (SCI-Expanded)
- VIII. **High-conductivity cementitious composites suited for flooring applications: Effect of mixing methods and utilization rates of conductive materials**
ÇELİK D. N., Belendir U., Ardogan M. K., YILDIRIM G., ŞAHMARAN M.
Journal of Building Engineering, cilt.87, 2024 (SCI-Expanded)
- IX. **3D-printable construction and demolition waste-based geopolymer: Investigating the effects of additives on engineering properties**
İLCAN H., Külak A. Y., ŞAHMARAN M.
Journal of Building Engineering, cilt.87, 2024 (SCI-Expanded)
- X. **A study on the influencing parameters in developing construction and demolition waste-based geopolymer concretes and their sustainability assessment**
Alhawat M., Yildirim G., Ashour A., Ozcelikci E., ALDEMİR A., ŞAHMARAN M.
Construction and Building Materials, cilt.426, 2024 (SCI-Expanded)
- XI. **Optimizing mechanical performance of geopolymers produced from construction and demolition**

waste: A comparative study of materials from different origins

KUL A., Ozcelikci E., ÖZEL B. F., İLCAN H., ŞAHİN O., Gunal M. F., YILDIRIM G., ŞAHMARAN M.
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- XII. **Comprehensive investigation of performance of construction and demolition waste based wood fiber reinforced geopolymer composites**
Ozcelikci E., ÖZDOĞRU E., Tuğluca M., İLCAN H., ŞAHMARAN M.
Journal of Building Engineering, cilt.84, 2024 (SCI-Expanded)
- XIII. **Engineered Cementitious Composites with Super-Sulfated Cement: Mechanical, Physical, and Durability Performance**
Zokaei S., Siad H., Lachemi M., Mahmoodi O., Ozcelikci E., ŞAHMARAN M.
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- XIV. **The role of supplementary cementitious materials and fiber reinforcements in enhancing the sulfate attack resistance of SCC/ECC composite systems**
Baloch W. L., Siad H., Lachemi M., ŞAHMARAN M.
Construction and Building Materials, cilt.423, 2024 (SCI-Expanded)
- XV. **Rocket blast resistance of the fully demountable high performance FRC tongue and groove blocks**
Bozkurt H. B., Genç O. K., ANIL Ö., ŞAHMARAN M., Bayer İ. R.
Structural Concrete, cilt.25, sa.2, ss.826-849, 2024 (SCI-Expanded)
- XVI. **Interlayer mechanical performance of 3D-printed cementitious systems: A comprehensive study on operational and material parameters**
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- XVII. **Experimental investigation of the damage characteristics and seismic response of moment-resisting bolted column base joints for precast concrete frames**
AKDUMAN Ş., AKTEPE R., ALDEMİR A., ŞAHMARAN M.
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- XVIII. **Low-alkaline activated construction and demolition waste-based geopolymers**
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- XIX. **Opportunities and challenges in constructing a demountable precast building using C&D waste-based geopolymer concrete: A case study in Türkiye**
AKDUMAN Ş., AKTEPE R., ALDEMİR A., Ozcelikci E., Alam B., ŞAHMARAN M.
Journal of Cleaner Production, cilt.434, 2024 (SCI-Expanded)
- XX. **Fundamental period estimation of RC buildings by considering structural and non-structural damage distributions through neural network**
Cinar O. F., ALDEMİR A., Zervent A., Yucel O. B., ERBERİK M. A., ANIL Ö., ŞAHMARAN M., KOÇKAR M. K., ASKAN GÜNDOĞAN A.
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- XXI. **Structural performance of construction and demolition waste-based geopolymer concrete columns under combined axial and lateral cyclic loading**
AKDUMAN Ş., AKTEPE R., ALDEMİR A., Ozcelikci E., YILDIRIM G., ŞAHMARAN M., Ashour A.
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- XXII. **Advancements in cleaner production of one-part geopolymers: A comprehensive review of mechanical properties, durability, and microstructure**
Zareechian M., Siad H., Lachemi M., ŞAHMARAN M.
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- XXIII. **Buildability analysis on effect of structural design in 3D concrete printing (3DCP): An experimental and numerical study**
Khan S. A., İLCAN H., Aminipour E., ŞAHİN O., Al Rashid A., ŞAHMARAN M., Koç M.
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- XXIV. **Performance of the phase change material (PCM) to reduce freeze-thaw effect in cementitious**

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- XXV. **Effect of severe sulfate exposure on the bonding behavior of hybrid engineered composite systems**
Baloch W. L., Siad H., Lachemi M., ŞAHMARAN M.
Journal of Building Engineering, cilt.79, 2023 (SCI-Expanded)
- XXVI. **Impact of supplementary cementitious materials and fibers in ECC on the fire resistance of hot-jointed SCC/ECC composites**
Baloch W. L., Siad H., Lachemi M., ŞAHMARAN M.
Magazine of Concrete Research, cilt.76, sa.7, ss.330-349, 2023 (SCI-Expanded)
- XXVII. **Self-healing capability of engineered cementitious composites with calcium aluminate cement**
Zokaei S., Siad H., Lachemi M., Mahmoodi O., ŞAHMARAN M.
Construction and Building Materials, cilt.403, 2023 (SCI-Expanded)
- XXVIII. **Characterization and life cycle assessment of geopolymers mortars with masonry units and recycled concrete aggregates assorted from construction and demolition waste**
KUL A., Ozel B. F., Ozcelikci E., Gunal M. F., ULUGÖL H., YILDIRIM G., ŞAHMARAN M.
Journal of Building Engineering, cilt.78, 2023 (SCI-Expanded)
- XXIX. **Effects of mono and binary recycled aggregates on the rheological properties of geopolymer mortars synthesized with construction and demolition waste-based binders**
Mahmoodi O., Siad H., Lachemi M., ŞAHMARAN M.
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- XXX. **Comparison of thermal conductivity and electrical resistivity of carbon-based cementitious composites**
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- XXXI. **Effect of duration and type of grinding on the particle size distribution and microstructure of natural pumice with low pozzolanic reactivity**
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- XXXII. **Characterization and standardization of different-origin end-of-life building materials toward assessment of circularity performance**
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- XXXIII. **Fully demountable column base connections for reinforced CDW-based geopolymer concrete members**
AKTEPE R., AKDUMAN Ş., ALDEMİR A., Ozcelikci E., YILDIRIM G., ŞAHMARAN M., Ashour A.
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- XXXIV. **Effect of industrial waste-based precursors on the fresh, hardened and environmental performance of construction and demolition wastes-based geopolymers**
İLCAN H., ŞAHİN O., Unsal Z., Ozcelikci E., KUL A., Cağatay Demiral N., YEMİŞÇİ ÖZKAN M., ŞAHMARAN M.
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- XXXV. **Eco-hybrid cement-based building insulation materials as a circular economy solution to construction and demolition waste**
Özcelikci E., Oskay A., Bayer İ. R., ŞAHMARAN M.
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- XXXVI. **Extensive rheological evaluation of geopolymer mortars incorporating maximum amounts of recycled concrete as precursors and aggregates**
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- XXXVII. **Effect of fire exposure on the bonding behavior of hybrid engineered composite systems**
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- Journal of Building Engineering, cilt.71, 2023 (SCI-Expanded)
- XXXVIII. **3D printing of circular materials: Comparative environmental analysis of materials and construction techniques**
Khan S. A., Jassim M., Ilcan H., ŞAHİN O., Bayer İ. R., ŞAHMARAN M., Koc M.
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- XXXIX. **The effects of various operational- and materials-oriented parameters on the carbonation performance of low-quality recycled concrete aggregate**
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- XL. **A comprehensive study on the compressive strength, durability-related parameters and microstructure of geopolymer mortars based on mixed construction and demolition waste**
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- XL1. **Construction and demolition waste-based self-healing geopolymer composites for the built environment: An environmental profile assessment and optimization**
Mir N., Khan S. A., KUL A., ŞAHİN O., Ozcelikci E., ŞAHMARAN M., Koc M.
Construction and Building Materials, cilt.369, 2023 (SCI-Expanded)
- XLII. **Effect of high temperatures on hot-bonded SCC/ECC and SCC/UHPC composite systems**
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- XLIII. **Characterization of chemically treated waste wood fiber and its potential application in cementitious composites**
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- XLIV. **Rheological property and extrudability performance assessment of construction and demolition waste-based geopolymer mortars with varied testing protocols**
İLCAN H., ŞAHİN O., KUL A., Ozcelikci E., ŞAHMARAN M.
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- XLV. **Multi-functional conductive cementitious composites including phase change materials (PCM) with snow/ice melting capability**
Acıkök F., Belendir U., Ardoğa M. K., ŞAHMARAN M.
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- XLVI. **Demountable reinforced concrete slabs using dry connections**
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- XLVII. **Energy-environmental performance assessment and cleaner energy solutions for a novel Construction and Demolition Waste-based geopolymer binder production process**
Khan S. A., KUL A., ŞAHİN O., ŞAHMARAN M., Al-Ghamdi S. G., Koç M.
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- XLVIII. **Mechanical anisotropy evaluation and bonding properties of 3D-printable construction and demolition waste-based geopolymer mortars**
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- XLIX. **Development of ambient cured geopolymer binders based on brick waste and processed glass waste**
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- L. **Sodium glass liquid from glass waste as a user-friendly hardener in structural geopolymer systems**
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- LI. **Properties of geopolymers sourced from construction and demolition waste: A review**
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- JOURNAL OF BUILDING ENGINEERING, cilt.50, 2022 (SCI-Expanded)
- LII. **Shear behaviour of reinforced construction and demolition waste-based geopolymer concrete beams**
ALDEMİR A., AKDUMAN Ş., KOCAER Ö., AKTEPE R., ŞAHMARAN M., YILDIRIM G., Almahmood H., Ashour A.
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- LIII. **Rheological properties and compressive strength of construction and demolition waste-based geopolymer mortars for 3D-Printing**
İLCAN H., Sahin O., KUL A., YILDIRIM G., ŞAHMARAN M.
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- LIV. **Optimization and characterization of geopolymer binders from ceramic waste, glass waste and sodium glass liquid**
Dadsetan S., Siad H., Lachemi M., Mahmoodi O., ŞAHMARAN M.
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- LV. **Optimized application of ternary brick, ceramic and concrete wastes in sustainable high strength geopolymers**
Mahmoodi O., Siad H., Lachemi M., Dadsetan S., ŞAHMARAN M.
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- LVI. **Role of inclusion size distribution of titanium dioxide on the nitrogen oxides reduction capability and microstructural characteristics of cementitious systems**
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- LVII. **The effect of chemical- versus microbial-induced calcium carbonate mineralization on the enhancement of fine recycled concrete aggregate: A comparative study**
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- LVIII. **Demountable connections of reinforced concrete structures: Review and future developments**
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