

## ÖZGEÇMİŞ

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<https://www.researchgate.net/profile/Iman-Faridmehr>  
<https://www.webofscience.com/wos/author/rid/AGH-9961-2022>  
<https://scholar.google.com/citations?user=HGD87d0AAAAJ&hl=en>  
<https://ecostruct.org/>

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**2. Doğum Tarihi** :

**3. Unvanı** :Dr.

### 4. Öğrenim Durumu

Derece	Alan	Üniversite	Yıl
Lisans	Civil Engineering	Islamic Azad University, Iran	2006
Yüksek Lisans	Civil structural Engineering	Islamic Azad University, Iran	2009
Doktora	Civil Engineering	Universiti Teknologi Malaysia, Malaysia	2015

### 5. Akademik Unvanlar

Dr.

### 6. Yönetilen Yüksek Lisans ve Doktora Tezleri

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#### 6.1. Yüksek Lisans Tezleri

Seismic Retrofitting of Steel Structures with Eccentric Braced System according to the Building Seismic Rehabilitation Prestandard

#### 6.2. Doktora Tezleri

Seismic and Progressive Collapse Assessment of New Proposed Steel Connection

### 7. Yayınlar

#### 7.1. Uluslar arası hakemli dergilerde yayınlanan makaleler

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Enhancing Strength and Corrosion Resistance of Steel-Reinforced Concrete: Performance Evaluation of ICRETE Mineral Additive in Sustainable Concrete Mixes with PFA and GGBS

Published in Infrastructures

DOI: 10.3390/INFRASTRUCTURES9120228

Development sustainable concrete with high-volume wastes tile ceramic: Role of silica nanoparticles amalgamation

Published in Case Studies in Construction Materials

DOI: 10.1016/J.CSCM.2024.E03733

Effective microorganism solution-imbued sustainable self-curing concrete: Evaluation of sorptivity, drying shrinkage and expansion

Published in Case Studies in Construction Materials

DOI:10.1016/J.CSCM.2024.E03255

Hybrid Intelligence Framework for Optimizing Shear Capacity of Lightweight FRP-Reinforced Concrete Beams

Published in International Journal of Lightweight Materials and Manufacture

DOI: 10.1016/J.IJLMM.2024.07.003

An innovative multi-objective optimization approach for compact concrete-filled steel tubular (CFST) column design utilizing lightweight high-strength concrete

Published in International Journal of Lightweight Materials and Manufacture

DOI: 10.1016/J.IJLMM.2024.01.004

Advanced method for estimating the volumetric intensity along tunnels using ANN

Published in International Journal of Geotechnical Engineering

DOI: 10.1080/19386362.2024.2377450

Performance of partially grouted reinforced masonry walls with bed-joint reinforcement: parametric and optimization investigation

Published in Archives of Civil and Mechanical Engineering

DOI: 10.1007/S43452-023-00810-8

Investigating the fresh and mechanical properties of wood sawdust-modified lightweight geopolymer concrete

Published in Advances in Structural Engineering

DOI: 10.1177/13694332231161103

Optimization of Fly Ash-Slag One-Part Geopolymers with Improved Properties

Published in Materials

DOI: 10.3390/MA16062348

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Mountaineering Team-Based Optimization: A Novel Human-Based Metaheuristic Algorithm

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Published in Mathematics  
DOI: 10.3390/MATH11051273

Predicting Crack Width in CFRP-Strengthened RC One-Way Slabs Using Hybrid Grey Wolf  
Optimizer Neural Network Model  
Published in Buildings  
DOI: 10.3390/BUILDINGS12111870

Structure, morphology and compressive strength of Alkali-activated mortars containing waste  
bottle glass nanoparticles  
Published in Construction and Building Materials  
DOI: 10.1016/J.CONBUILDMAT.2022.128005

Novel hybrid informational model for predicting the creep and shrinkage deflection of reinforced  
concrete beams containing GGBFS  
Published in Neural Computing and Applications  
DOI: 10.1007/S00521-022-07150-3

Systematic Experimental Assessment of POFA Concrete Incorporating Waste Tire Rubber  
Aggregate  
Published in Polymers  
DOI: 10.3390/POLYM14112294

Predicting axial load capacity of CFST columns using machine learning  
Published in Structural Concrete  
DOI: 10.1002/SUCO.202100641

Seismic Analysis of Baffle-Reinforced Elevated Storage Tank Using Finite Element Method  
Published in Buildings  
DOI: 10.3390/BUILDINGS12050549

Flexural Behavior of Reinforced Concrete Beams under Instantaneous Loading: Effects of  
Recycled Ceramic as Cement and Aggregates Replacement  
Published in Buildings  
DOI: 10.3390/BUILDINGS12040439

Novel informational bat-ANN model for predicting punching shear of RC flat slabs without shear  
reinforcement  
Published in Engineering Structures  
DOI: 10.1016/J.ENGSTRUCT.2022.114030

Smart Bio-Agents-Activated Sustainable Self-Healing Cementitious Materials: An All-Inclusive  
Overview on Progress, Benefits and Challenges  
Published in Sustainability

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DOI: 10.3390/SU14041980

A Review on the Use of Self-Curing Agents and Its Mechanism in High-Performance Cementitious Materials

Published in Buildings

DOI: 10.3390/BUILDINGS12020152

MECHANICAL PROPERTIES PREDICTION OF HEAVYWEIGHT CONCRETE USING GENERALIZED REGRESSION NEURAL NETWORK (GRNN)

Published in Revista Romana de Materiale/ Romanian Journal of Materials

Gum Arabic Nanoparticles as Green Corrosion Inhibitor for Reinforced Concrete Exposed to Carbon Dioxide Environment

Published in Materials

DOI: 10.3390/MA14247867

Predicting Embodied Carbon and Cost Effectiveness of Post-Tensioned Slabs Using Novel Hybrid Firefly ANN

Published in Sustainability

DOI: 10.3390/SU132112319

Metaheuristic Prediction of the Compressive Strength of Environmentally Friendly Concrete Modified with Eggshell Powder Using the Hybrid ANN-SFL Optimization Algorithm

Published in Materials

DOI: 10.3390/MA14206172

Evaluating mechanical properties and impact resistance of modified concrete containing ground Blast Furnace slag and discarded rubber tire crumbs

Published in Construction and Building Materials

DOI: 10.1016/J.CONBUILDMAT.2021.123603

Experimental and Informational Modeling Study of Sustainable Self-Compacting Geopolymer Concrete

Published in Sustainability

DOI: 10.3390/SU13137444

Hybrid Krill Herd-ANN Model for Prediction Strength and Stiffness of Bolted Connections

Published in Buildings

DOI: 10.3390/BUILDINGS11060229

Life-Cycle Assessment of Alkali-Activated Materials Incorporating Industrial Byproducts

Published in Materials

DOI: 10.3390/MA14092401

Performance Evaluation of Modified Rubberized Concrete Exposed to Aggressive Environments

Published in Materials

DOI: 10.3390/MA14081900

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Performance of Epoxy Resin Polymer as Self-Healing Cementitious Materials Agent in Mortar  
Published in Materials  
DOI: 10.3390/MA14051255

Application of Component-Based Mechanical Models and Artificial Intelligence to Bolted Beam  
to-Column Connections  
Published in Applied Sciences  
DOI: 10.3390/APP11052297

Seismic Analysis of Concrete Arch Dam Considering Material Failure Criterion  
Published in IOP Conference Series: Materials Science and Engineering  
DOI: 10.1088/1757-899X/1117/1/012004

Assessment of Mechanical Properties and Structural Morphology of Alkali-Activated Mortars with  
Industrial Waste Materials  
Published in Sustainability  
DOI: 10.3390/SU13042062

Evaluation of the Efficiency of Single-Outrigger Structural Systems in Tall Buildings  
Published in IOP Conference Series: Earth and Environmental Science  
DOI: 10.1088/1755-1315/682/1/012010

Evaluation of Mechanical and Environmental Properties of Engineered Alkali-Activated Green  
Mortar  
Published in Materials  
DOI: 10.3390/MA13184098

Numerical and Physical Analysis on the Response of a Dam's Radial Gate to Extreme Loading  
Performance  
Published in Water  
DOI: 10.3390/W12092425

An Overview of Progressive Collapse Behavior of Steel Beam-to-Column Connections  
Published in Applied Sciences  
DOI: 10.3390/APP10176003

Cyclic Behaviour of Fully-Rigid and Semi-Rigid Steel Beam-to-Column Connections  
Published in International Journal of Steel Structures  
DOI: 10.1007/S13296-019-00290-8

AN OVERVIEW OF THE CONNECTION CLASSIFICATION INDEX  
Published in Advanced Steel Construction  
DOI: 10.18057/IJASC.2019.15.2.4

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Hydraulic and structural considerations of dam's spillway - a case study of Karkheh Dam,  
Andimeshk, Iran

Published in Structural Monitoring and Maintenance

DOI: 10.12989/SMM.2019.6.1.001

Construction and Monitoring of Cement/Bentonite Cutoff Walls: Case Study of Karkheh Dam, Iran

Published in Studia Geotechnica et Mechanica

DOI: 10.2478/SGEM-2019-0019

Seismic assessment of base-isolated nuclear power plants

Published in Advances in Computational Design

DOI: 10.12989/ACD.2017.2.3.211

Seismic Performance of Steel Frames with Semirigid Connections

Published in Journal of Engineering

DOI: 10.1155/2017/5284247

Classification System for Semi-Rigid Beam-to-Column Connections

Published in Latin American Journal of Solids and Structures

DOI: 10.1590/1679-78252595

Behaviour and design of cold-formed steel C-sections with cover plates under bending

Published in International Journal of Steel Structures

DOI: 10.1007/S13296-016-6026-9

Effect of Web Holes and Bearing Stiffeners on Flexural-Shear Interaction Strength of Steel Cold  
Formed C-Channel Sections

Published in Latin American Journal of Solids and Structures

DOI: 10.1590/1679-78252033

Performance of steel beams strengthened with pultruded CFRP plate under various exposures

Published in Steel & Composite Structures

DOI: 10.12989/SCS.2016.20.5.999

Cyclic and Explosive Evaluation of New Proposed Steel Joint

Published in Advances in Civil Engineering

DOI: 10.1155/2016/4975097

An experimental investigation of stiffened cold-formed C-channels in pure bending and primarily  
shear conditions

Published in Thin-Walled Structures

DOI: 10.1016/J.TWS.2015.07.023

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Severe Loading Assessment of Modern and New Proposed Beam to Column Connections  
Published in Latin American Journal of Solids and Structures  
DOI: 10.1590/1679-78251286

Modification of Grout Properties in Prepacked Aggregate Concrete Incorporating Palm Oil Fuel Ash  
Published in Indian Journal of Materials Science  
DOI: 10.1155/2015/353617

Seismic and Progressive Collapse Assessment of New Proposed Steel Connection  
Published in Advances in Structural Engineering  
DOI: 10.1260/1369-4332.18.3.439

Seismic and progressive collapse assessment of SidePlate moment connection system  
Published in Structural Engineering and Mechanics  
DOI: 10.12989/SEM.2015.54.1.035

Investigation of Progressive Collapse Resistance for a Seismically Designed RC Building  
Published in Research Journal of Applied Sciences, Engineering and Technology  
DOI: 10.19026/RJASET.7.510

Economic Design Issues of RC Structures against Progressive Collapse  
Published in Research Journal of Applied Sciences, Engineering and Technology  
DOI: 10.19026/RJASET.7.499

Assessment the Behavior of Seismic Designed Steel Moment Frames Subjected to Progressive Collapse  
Published in Research Journal of Applied Sciences, Engineering and Technology  
DOI: 10.19026/RJASET.7.508

Evaluation of extreme load performance of pre-Northridge connections  
Published in Gradjevinar  
Analyzing Accidents Caused by Overturn of Vehicles (Case Study of Iran-Zanjan Province in 2010)  
Published in Research Journal of Applied Sciences, Engineering and Technology

Flexural behaviour of stiffened cold-formed steel rectangular hollow sections  
Published in International Journal of Earth Sciences and Engineering

Seismic Performance of RC Beam-Column Connections with Continuous Rectangular Spiral Transverse Reinforcements for Low Ductility Classes  
Published in The Scientific World Journal  
DOI: 10.1155/2014/802605

Seismic assessment of RC buildings according to FEMA 356

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**7.2. Uluslar arası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceeding) basılan bildiriler.**

**7.3. Yazılan Uluslar arası kitaplar veya kitaplarda bölümler.**

**7.4. Ulusal hakemli dergilerde yayınlanan makaleler**

Self-Healing Cementitious Materials: Technologies, Evaluation Methods, and Applications; GF Huseien, I Faridmehr, MH Baghban; CRC Press

**7.5. Ulusal bilimsel toplantılarda sunulan bildiri kitabında basılan bildiriler**

**7.6 Diğer Yayınlar**

**8.Projeler**

- Kanada, MacMaster Üniversitesi'nden Profesör Moncef L. Nehdi ile Post-Germeli Döşemelerin Somut Karbon Emisyonlarını, Maliyetlerini ve Kullanılabilirliğini Araştırma projesiyle ilgili deneysel veri ve bilgi alışverişinde bulunun, 2020-2022

✓ - Atık malzemelerden oluşan alkali aktifleştirilmiş betonla ilgili deneysel veri alışverişinde bulunun ve mekanik özellikleri, somutlaştırılmış enerjiyi ve CO2 emisyonlarını araştırın. Singapur Ulusal Üniversitesi. Sorumlu kişi: Dr. Ghasan Fahim Huseien. 2020—2022.

✓ Norveç, NTNU'dan Profesör Mohammad Hajmohammadian Baghban ile Marie Skłodowska-Curie Eylemleri (MSCA) Doktora Sonrası Bursları için akademik iş birliği, 2020-2022.

✓ - Çin Hohai Üniversitesi'nden Dr. Rana Muhammad Adnan ile Karkheh Barajı'nın ([https://en.wikipedia.org/wiki/Karkheh\\_Dam](https://en.wikipedia.org/wiki/Karkheh_Dam)) deşarj tahmini üzerine akademik işbirliği, 2020-2021

✓ - Çelik kiriş-kolon bağlantıları ve bileşen tabanlı mekanik model geliştirme üzerine deneysel veri alışverişi, Reggio Calabria Akdeniz Üniversitesi. Sorumlu kişi: Profesör Raffaele Pucinotti. Aralık 2019-Mart 2020

✓ - Yeni bir kiriş-kolon bağlantısı türü önermek için SidePlate sistemiyle (ABD merkezli şirket) veri alışverişi Sorumlu kişi: Profesör Behzad Rafezy, Ar-Ge Departmanı müdürü (<https://www.sideplate.com/culture/our-team/>), 2015-2016.

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## 9.İdari Görevler

Yapısal tasarımcı ve süpervizör, Dr Ganjavian hastanesi (<http://gh.dums.ac.ir/>), doğum ve acil durum bölümü projesi (Nisan 2016-Eylül 2017)

- Konuk araştırma asistanı, Universiti Teknologi Malaysia (Mayıs 2015 - Şubat 2016)
- Dez Dam Enerji Santrali Operasyon üretim şirketindeki radyal savakların sismik güçlendirmesi için idari tasarım ([https://en.wikipedia.org/wiki/Dez\\_Dam](https://en.wikipedia.org/wiki/Dez_Dam))
- İslam Azad Üniversitesi, Dezful, İran'da öğretim görevlisi "Yarı Zamanlı" (2017-günümüz)

## 10.Bilimsel Kuruluşlara Üyelikleri

EcoStruct Building Technologies LTD, BC, Kanada'nın CEO'su ve Kurucu Ortağı <https://ecostruct.org/>  
✓ Küresel Çimento ve Beton Derneği (GCCA) Küresel Çimento ve Beton Derneği (GCCA) Innovandi Girişimci Ağı üyesi

✓ Bilimsel ve akademik dergiler için inceleme kurulu hizmeti: İnşaat ve Makine Mühendisliği Arşivleri, Mühendislik Yapıları, Yapı Mühendisliğinde İlerlemeler, SN Uygulamalı Bilimler, Malzemeler (MDPI) ve İnşaat ve Yapı Malzemeleri. ✓ Lisansüstü tez için ön inceleme ve karşıt olarak hizmet, 2017-2018 (Azad Üniversitesi, İran)

✓ Tam üye, 2012-2015. Mühendislik Sismolojisi ve Deprem Mühendisliği Araştırması (E-Seer), Malezya

✓ Konsey üyesi, 2010-2012. İran İnşaat Mühendisliği Örgütü (IRCEO), İran

✓ Dez Dam Enerji Santrali'nde ([https://en.wikipedia.org/wiki/Dez\\_Dam](https://en.wikipedia.org/wiki/Dez_Dam)) sismik güçlendirme radyal savak için tasarım idari (yarı zamanlı), 2017.

## 11.Ödüller

Bilimsel ve sanatsal araştırma ve endüstriyle işbirliği için ödüller (İran İnşaat Mühendisliği Örgütü)

✓ En iyi öğrenci ödülü (başlangıç töreni, Universiti Teknologi Malaysia, Malezya)

✓ İslam Azad Üniversitesi'nden araştırma metodolojisi dersi vermek için öğretim ödülleri

✓ Doktora bursu (Universiti Teknologi Malaysia (UTM), Malezya, Şubat 2012- Ağustos 2015)

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**12.Son iki yılda verdiği lisans ve lisansüstü düzeyindeki dersler**

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Academic Year	Term	Course Name	Hours/week		Number of Students
			Theoretical	Applied	
	Fall	Computer-aided design	1	2	
		static		3	
		Computer application in civil engineering	1	2	
		Strength of materials		3	
		Hydrology		3	
		Dynamic		3	
	Spring	Dynamic of structures		3	
		Engineering drawing	1	2	
		High-performance concrete		3	
		Computer-aided design		3	
		Static		3	
		Strength of materials		3	