

RESUME

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Background: *BSc. : 1978-1985 (Tehran University & Isfahan Univ. of Tech., Iran)*

MSc.: 1985-1987 (Isfahan University of Technology, IUT, Iran)

Ph.D.: 1993-1997 (Carleton University, Ottawa, Canada)

Title of Ph.D. Thesis: *Ductility and Moment Redistribution in Continuous FRP Reinforced Concrete Beams*

Number of Books/Papers/Patents/Students

- **Books: 6; Proceedings: 7**
- **Journal Papers: 285**
- **Conference Papers: ~200**
- **Citations: ~8000**
- **H-index: 53**
- **Top 2% of Scientists in the field of Civil and Environmental Engineering – 2020, 2021, 2022, 2023 (Stanford/Elsevier’s Ranking)**
- **International Patents: 5; National Patents: 8**
- **Graduated PhD Students: 25; Current PhD Students: 6**
- **Graduated Master Students: ~120; Current MSc Students: 7**

Positions/Memberships

- **Faculty of Department of Civil Engineering, IUT, 1987-present.**
- **Vice-Chancellor of the University in Student Affairs, 1989-1991.**
- **Graduate Coordinator, Dept. of Civil Eng., IUT, 1997-2000.**

- **Head of the Department of Civil Engineering, IUT, 2000-2004.**
- **Chairman of the 6th International Conference on Civil Engineering, ICCE 2003.**
- **Director of Research Nucleus of Concrete, IUT, 1999-2006.**
- **Director of the Center of Excellence for Offshore Science and Technology (CEOST), IUT, 2003-2006.**
- **Director of Board of Trustees of National and International Congresses on Civil Engineering, 2002-2006.**
- **Adjunct Lecturer, University of Arizona, Tucson, AZ, USA, 2006-2008.**
- **Head of Iranian Concrete Institute- Isfahan Branch (ICIE), 2010-2014.**
- **Scientific Chairman of the 9th International Conference on Civil Engineering, 9ICCE, 2012.**
- **Member of Board of Trustees of IUT, 2012-2014.**
- **Iran's Deputy in *fib*: International Federation of Concrete, 2014-2016.**
- **Member of Central Committee of Part 9 (Reinforced Concrete Structures) of National Building Regulations of Iran, 2013-present.**
- **Member of Central Committee of Iranian Concrete Code (ABA), 2014-present.**
- **Member of Transportation and Civil Engineering Committee, Supreme Council of Science, Research and Technology, 2019-present.**
- **Member of Planning Office of Graduate Studies in Civil Engineering, Ministry of Science, Research and Technology, 2019-2023.**
- **Associate editor, Iranian Journal of Science and Technology, Transactions of Civil Engineering, 2020 – present.**

Honors

- **Top Outstanding (Distinguished) Researcher Award of Iran - 2023** (Awarded by the Minister of Science, Research, and Technology).
- **Top Engineer in the Country (of Iran) – March 2023.**
- **2023 - Top 2% Scientists (Stanford/Elsevier's Ranking).**
- **2022 - Top 2% Scientists (Stanford/Elsevier's Ranking).**
- **2021 - Top 2% Scientists (Stanford/Elsevier's Ranking).**
- **2020 - Top 2% Scientists (Stanford/Elsevier's Ranking).**
- **Top Outstanding (Distinguished) Professor Award of Iran - 2012** (Awarded by the President of Iran).
- **Distinguished Man of Concrete in Iran – 2012.**
- **Top Researcher of Isfahan Province – 2012** (honored by the Isfahan governor).
- **Award of Book of the Year of Iran - 2007** (As the author of the book Reinforced Concrete Structures, Volumes 1 and 2, Awarded by the President of Iran).

- **Award of Book of the Year in Isfahan Province - 2010** (As the author of the book Loading of Structures, honored by the Isfahan governor).
- **IUT Distinguished Research Award for Authorship - 2011** (Honored by the IUT President).
- **IUT Distinguished Teaching Award - 2010** (Honored by the IUT President).
- **IUT Distinguished Research Award - 2008** (Honored by the IUT President).
- **Pioneer Engineer Award – 2003** (Honored by the Construction Engineering Organization of Isfahan Province).
- **IUT Distinguished Teaching Award - 2002** (Honored by the IUT President).
- **IUT Distinguished Research Award - 2001** (Honored by the IUT President).
- **Distinguished Grade in Kharazmi Festival – 1992** (Assabehat Design).
- **Receipt of a Fellowship Award from the Iranian Government for Studying Towards the Degree of Ph.D.**

International Research Collaborations

- **Invited Visiting Professor, University of California, Irvine (UCI), USA, 2016 – 2017.**
- **Invited Visiting Scholar & Adjunct Lecturer, University of Arizona, USA, 2006 – 2007.**
- **Invited Visiting Professor, Wuppertal University, Germany, September 2003.**
- **Invited Visiting Professor, University of Queensland, Brisbane, Australia, March-April 2002.**
- **Invited Visiting Professor, Wuppertal University, Germany, September 2002.**

Patented Inventions

A) International Patents

1. World

WIPO (World Intellectual Property Organization)

Title: A New Hyperbranched-Polycarboxylate Superplasticizer and Its Preparation Method

Inventors: Sharbaf, Mohammadreza; Hajareh haghghi, Farid; Mostofinejad, Davood.

Publication No.: WO 2022/172054 A1

Publication Date: 08/18/2022

2. USA

Title: METHOD FOR STRENGTHENING CONCRETE OR TIMBER STRUCTURES USING CFRP STRIPS AND CONCRETE OR TIMBER STRUCTURES STRENGTHENED BY THIS METHOD

Inventors: HUPPI, MARTIN; HOSSEINI, ARDALAN; MOSHIRI, NILOUFAR; MOSTOFINEJAD, DAVOOD; CZADERSKI, CHRISTOPH; MOTAVALLI,

MASOUD.

Publication No.: US-22002222--00004422333333-A1

Publication Date: 02/10/2022

3. Canada

Title: METHOD FOR STRENGTHENING CONCRETE OR TIMBER STRUCTURES USING CFRP STRIPS AND CONCRETE OR TIMBER STRUCTURES STRENGTHENED BY THIS METHOD

Inventors: HUPPI, MARTIN; HOSSEINI, ARDALAN; MOSHIRI, NILOUFAR; MOSTOFINEJAD, DAVOOD; CZADERSKI, CHRISTOPH; MOTAVALLI, MASOUD.

Patent No.: 3,126,621 ; **Patent grant and issue Date:** 01/11/2022

4. Australia

Title: METHOD FOR STRENGTHENING CONCRETE OR TIMBER STRUCTURES USING CFRP STRIPS AND CONCRETE OR TIMBER STRUCTURES STRENGTHENED BY THIS METHOD

Inventors: HUPPI, MARTIN; HOSSEINI, ARDALAN; MOSHIRI, NILOUFAR; MOSTOFINEJAD, DAVOOD; CZADERSKI, CHRISTOPH; MOTAVALLI, MASOUD.

Patent No.: 2020214703 ; **Date:** 11/18/2021

5. Europe

Title: METHOD FOR STRENGTHENING CONCRETE OR TIMBER STRUCTURES USING CFRP STRIPS AND CONCRETE OR TIMBER STRUCTURES STRENGTHENED BY THIS METHOD

Inventors: HUPPI, MARTIN; HOSSEINI, ARDALAN; MOSHIRI, NILOUFAR; MOSTOFINEJAD, DAVOOD; CZADERSKI, CHRISTOPH; MOTAVALLI, MASOUD.

Application No.: 20 701 224.6 ; **Date:** 01/27/2022

B) Patents in Iran

1. **Title:** Stabilization of Phase Change Materials (PCMs) in Concrete to Save and Reduce Energy Consumption in Buildings

Owners: Gharibi, Hamed, and Mostofinejad, Davood.

Serial No.: 139950840003001614; **Invention Registry No.:** 102976; **Invention Registration Date:** September 21, 2020.

2. **Title:** A Procedure for Strengthening of Reinforced Concrete Members using FRP through Externally Bonded reinforcement In/On Groove (EBRIOG)

Owners: Saljoughian Esfahani, Alireza, and Mostofinejad, Davood.

Serial No.: A/89 – 001521; **Invention Registry No.:** 102195; **Invention Registration Date:** March 09, 2020.

3. **Title:** Producing a Special Polycarboxylate-Based Plasticizer with High Early Fluidity and Slump Detention

Owners: Sharbaf, Mohamadreza, Hajareh Haghighi, Farid, and Mostofinejad, Davood.

Serial No.: C04B 24/02; **Invention Registry No.:** 99288; **Invention Registration Date:**

August 04, 2019.

4. **Title:** Corner Strip-Batten Technique for Confinement of Rectilinear Reinforced Concrete Columns with FRP
Owners: Mostofinejad, Davood, and Ilia, Elahe.
Serial No.: A/89 – 002069; **Invention Registry No.:** 83579; **Invention Registration Date:** August 16, 2014.
5. **Title:** Externally Bonded Reinforcement on Groove (EBROG) to Utilize the Compressive Capacity of Longitudinal CFRP Composite
Owners: Mostofinejad, Davood, and Moshiri, Niloufar.
Serial No.: A/89 – 021882; **Invention Registry No.:** 86524; **Invention Registration Date:** August 23, 2014.
6. **Title:** Shear Strengthening of Reinforced Concrete Beams with FRP Sheets Using VGM (Vertical Grooves Method)
Owners: Mostofinejad, Davood, and Tabatabaei Kashani, Amir Homayoon.
Serial No.: A/89 – 030381; **Invention Registry No.:** 71404; **Invention Registration Date:** September 8, 2011.
7. **Title:** GM (Grooving Method) with EBROG (Externally Bonded Reinforcement On Grooves) Technique to Prevent Debonding of FRP Sheets from Surface of Concrete Beam in Flexure
Owners: Mostofinejad, Davood, Mahmudabadi, Ehsan, and Hosseini, Ardalan.
Serial No.: A/89 – 007957; **Invention Registry No.:** 70840; **Invention Registration Date:** July 27, 2011.
8. **Title:** EBRIG (Externally Bonded Reinforcement In Grooves) Method for Bonding FRP Laminates onto Concrete Beams
Owners: Mostofinejad, Davood, Shameli, Seyed Masoud, and Hosseini, Ardalan.
Serial No.: A/89 – 013792; **Invention Registry No.:** 69333; **Invention Registration Date:** March 15, 2011.

Member of Editorial Board / Scientific Journals

- *Iranian Journal of Science and Technology (IJST) – Transactions of Civil Engineering (in English), 2020 – present.*
- *International Journal of Science and Technology, SCIENTIA IRANICA; Transaction A: Civil Engineering (in English), 2007 – present.*
- *International Journal of Transportation Engineering (IJTE), (in English), 2011-present.*
- *Journal of Rehabilitation Engineering (in English), Semnan University, 2012-present.*
- *Journal of Civil Engineering (in Persian), Ferdowsi University of Mashhad, 2009-present.*
- *Journal of Concrete Research (in Persian), University of Guilan, 2007-present.*

- *Journal of Experimental Research in Civil Engineering, (in Persian), University of Shahid Rajaei, 2012-2018.*
- *Journal of Civil and Environmental Engineering, (in Persian), University of Tabriz, 2020-present.*

TEACHING SUBJECTS

a) Graduate Courses

Strengthening of Reinforced Concrete Structures
 Advanced Concrete
 Advanced Concrete Technology
 Advanced Reinforced Concrete Structures
 Matrix Analysis of Structures
 Prestressed Concrete

b) Undergraduate Courses

Reinforced Concrete Structures I
 Reinforced Concrete Structures II
 Project of Reinforced Concrete Structures
 Concrete Technology
 Loading on Structures
 Statics
 Strength of Materials
 Analysis of Structures

AREA OF RESEARCH

- **Application of Fiber Reinforced Polymer (FRP) in Strengthening/ Rehabilitating Concrete and Masonry Structures**
- **Reinforced Concrete (RC) Structures (Analysis and Design)**
- **Repair and Rehabilitation of Damaged RC Structures**
- **Ductility and Moment Redistribution in RC Structures**
- **Non-linear FE Analysis of RC Structures**
- **Advanced Concrete Technology, including Fiber Reinforced Concrete (FRC), High Strength, and High-Performance Concrete (HSC & UHPFRC)**
- **Durability of Concrete in Corrosive Environments**
- **Biological Treatment of Concrete**

PUBLICATIONS

BOOKS

1. Mostofinejad, D., ***Loading of Structures***, 1st Ed., Fall 2009, 11th Ed., 2020, 800 p.
2. Mostofinejad, D., ***Reinforced Concrete Structures – Volume II***, 1st Ed., 2006, 42nd Ed., 2024, 776 p. [“Book of the Year in 2008”](#)
3. Mostofinejad, D., ***Reinforced Concrete Structures – Volume I***, 1st Ed., 2004, 59th Ed., 2024, 716 p. [“Book of the Year in 2008”](#)
4. Mostofinejad, D., ***Concrete Technology and Mix Design***, 1st Ed., 1995, 56th Ed. 2023 (Previous Ed. 176 p) New Ed. 440 p.
5. Mostofinejad, D., and Fazilati, M., ***Loading and Load Carrying Systems***, 1st Ed., March 2000, 9th Ed., 2009, 592 p.
6. Mostofinejad, D. *et al.* (group of the authors), ***Building Materials***, 2006, 890 p.

PROCEEDINGS

1. Mostofinejad, D., and Azhari, M., ***Structural and Earthquake Engineering***, *Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003)*, Volume 1, May 5-7, 2003, Editor.
2. Mostofinejad, D., ***Reinforced Concrete and Steel Structures, and Concrete Technology***, *Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003)*, Volume 2, May 5-7, 2003, Editor.
3. Mostofinejad, D., Chamani, M. R., and Asghari, K., ***Hydraulics and Water Resources***, *Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003)*, Volume 3, May 5-7, 2003, Editor.
4. Mostofinejad, D., Asghari, K., and Chamani, M. R., ***Environmental Engineering, Hydrology and Transportation***, *Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003)*, Volume 4, May 5-7, 2003, Editor.
5. Mostofinejad, D., and Vafaeian, M., ***Soil Mechanics, Geotechnics and Geodesy***, *Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003)*, Volume 5, May 5-7, 2003, Editor.
6. Mostofinejad, D., ***Structural Engineering and Concrete Technology***, *Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003)*, Volume 6, May 5-7, 2003, Editor.
7. Mostofinejad, D., and Chamani, M. R., ***Water Resources, Geotechnics and Transportation***, *Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003)*, Volume 7, May 5-7, 2003, Editor.

PAPERS

A) JOURNAL (ISI) PAPERS

2024

1. Mostofinejad, Davood, Abdoli, Mahshid, Savoj, Maryam, and Hajrasouliha, Javad, **“Hybrid rehabilitation of 3D RC beam-column joints using UHP-HFRC and FRP wrapping: Experimental evaluation and theoretical analysis,”** *Journal of Building Engineering*, Vol. 97, December 2024, Article 110758, 37 pages.
2. Bahmani, Hadi, and Mostofinejad, Davood, **“Novel Cement-Free UHPC with High Gamma-Ray Resistance Using Calcium Oxide-Activated Slag, Iron and Barite Powders, and Steel Fibers,”** *Journal of Materials in Civil Engineering, ASCE*, Vol. 36, No. 12, December 2024, Article 04024402, 19 pages.
3. Mohammadsalehi, Ali, Mostofinejad, Davood, and Bahmani, Hadi, **“Effects of Calcium Chloride, Ocher, and PP Fibers on the Mechanical Properties of Low Cement High-Performance Concrete with Ca(OH)₂-Activated Slag Binder: A Novel Approach,”** *Arabian Journal for Science and Engineering*, Vol. 49, Issue 11, November 2024, 19 pages.
4. Aghamohammadi, Omid, Jafari, Zahra, Bahmani, Hadi, and Mostofinejad, Davood, **“Novel eco-friendly high-strength concrete based on slag activated with calcium oxide: Environmental, thermal, and mechanical performance,”** *Construction and Building Materials*, Vol. 449, October 2024, Article 138334, 16 pages.
5. Dehghani, Omid, Eslami, Abolfazl, Mahdavi pour, Mohamadali, Mostofinejad, Davood, Ghorbani-Mooselu, Mehrdad, and Pilakoutas, Kypros, **“Ceramic waste powder as a cement replacement in concrete paving blocks: mechanical properties and environmental assessment,”** *International Journal of Pavement Engineering*, Vol. 25, Issue 1, December 2024, Article 2370563, 12 pages.
6. Alizadeh, Mehrdad, Eftekhari, Mohamadreza, Asadi, Payam, and Mostofinejad, Davood, **“Enhancing the mechanical properties of crumb rubber concrete through polypropylene mixing via a pre-mixing technique,”** *Case Studies in Construction Materials*, Vol. 21, December 2024, Article e03569, 18 pages.
7. Aghamohammadi, Omid, Jafari, Zahra, Bahmani, Hadi, and Mostofinejad, Davood, **“Novel eco-friendly high-strength concrete based on slag activated with calcium oxide: Environmental, thermal, and mechanical performance,”** *Construction and Building Materials*, Vol. 449, October 2024, Article 138334, 16 pages.
8. Heidari, Pouria, Mostofinejad, Davood, Eftekhari, Mohamadreza, and Saljoughian, Alireza, **“Seismic flexural rehabilitation of RC coupling beams with FRP sheets: Evaluation of EBROG technique,”** *Structures*, Vol. 68, October 2024, Article 107076, 17 pages.
9. Mostofinejad, Davood, Moosaie, Iman, Eftekhari, Mohamadreza, and Hesami, Ebrahim, **“UHPFRC Composites Incorporating Hybridized Polymer Fibers: Resistance to Static and Impact Loads,”** *ACI Materials Journal*, Vol. 121, No. 9, September 2024, pp.

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10. Saljoughian, Alireza, Nasrollahi, Mohsen, Hafizi-Esfahani, Amirhossein, and Mostofinejad, Davood, **“Use of grooving method for shear strengthening of RC beams with UHPFRC panels,”** *Case Studies in Construction Materials*, Vol. 21, September 2024, Article e03725, 19 pages.
11. Saljoughian, Alireza, Bahmani, Hadi, Ansari, Zeinab, Jafari, Nasrin, and Mostofinejad, Davood, **“An eco-friendly ECC with high slag and polypropylene fiber content for high-tensile strain applications,”** *Journal of Building Engineering*, Vol. 91, August 2024, Article 109726, 18 pages.
12. Mostofinejad, Davood, Nasrollahi, Mohsen, Bahmani, Hadi, Zajshour, Zahra, and Sadeghi, Morteza, **“Enhancing concrete strength and durability of normal and high-strength concrete: Exploring combined effects of optimized silica fume and slag,”** *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, August 2024, 20 pages, <https://doi.org/10.1007/s40996-024-01573-9>.
13. Abdoli, Mahshid, Mostofinejad, Davood, and Eftekhari, Mohamadreza, **“Aggregate interlock and effective strain of FRP-strengthened flanged RC members subjected to torsion: Experimental evaluation and analytical modeling,”** *Construction and Building Materials*, Vol. 437, July 2024, Article 136865, 22 pages.
14. Abdoli, Mahshid, Mostofinejad, Davood, Eftekhari, Mohamadreza, and Saljoughian, Alireza, **“Torsional strengthening of T-shaped RC members with FRP composites using EBROG method: Experimental investigation and analysis,”** *Construction and Building Materials*, Vol. 437, July 2024, Article 136829, 19 pages.
15. Jafarian, Navid, and Mostofinejad, Davood, **“Governing Failure Mode of Reinforced Concrete Flat Slabs Under Gravity Load Using the Codes Guidelines and Yield-Line Theory,”** *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, August 2024, 23 pages, <https://doi.org/10.1007/s40996-024-01538-y>.
16. Khorasani, Mehdi, Muciaccia, Giovanni, and Mostofinejad, Davood, **“Experimental study of fatigue behaviour of CFRP-to-concrete bonded joints employing the EBROG strengthening technique,”** *Construction and Building Materials*, Vol. 435, July 2024, Article 136824, 16 pages.
17. Bahmani, Hadi, and Mostofinejad, Davood, **“Comparative analysis of environmental, social, and mechanical aspects of high-performance concrete with calcium oxide-activated slag reinforced with basalt, and recycled PET fibers,”** *Case Studies in Construction Materials*, Vol. 20, July 2024, Article e02895, 23 pages.
18. Abdoli, Mahshid, and Mostofinejad, Davood, **“Theoretical analysis of behavior of FRP-strengthened reinforced concrete members subjected to combined torsion and biaxial bending,”** *Journal of Composites for Construction*, Vol. 28, Issue 3, June 2024, Article 04024008, 19 pages.
19. Bahmani, Hadi, Mostofinejad, Davood, and Eftekhari, Mohamadreza, **“A novel Eco-friendly thermal-insulating high-performance geopolymer concrete containing**

- calcium oxide-activated materials with waste tire and waste polyethylene terephthalate,”** *Developments in the Built Environment*, Vol. 18, May 2024, Article 100473, 17 pages.
20. Nagheh, Elnaz, Mostofinejad, Davood, and Saljoughian, Alireza, **“Shear strengthening of RC arches with FRP composites using EBR and EBROG methods: Experimental and theoretical study,”** *Construction and Building Materials*, Vol. 427, May 2024, Article 126212, 15 pages.
 21. Mostofinejad, Davood, Bahmani, Hadi, Khorshidifar, Abolfazl, and Afsharpour, Reza, **“Enhancing concrete durability with polymer impregnation: A comparative study of corrosion and freeze-thaw resistance,”** *Developments in the Built Environment*, Vol. 18, April 2024, Article 100414, 11 pages.
 22. Torabian, Ala, and Mostofinejad, Davood, **“Strengthening of two-way slabs with fiber-reinforced polymer composites: A new system using grooving technique and fans,”** *Structures*, Vol. 62, April 2024, Article 106228, 15 pages.
 23. Jafari, Zahra, and Mostofinejad, Davood, **“Flexural strengthening of RC beams by advanced concrete canvas,”** *Structural Concrete*, Vol. 25, Issue 2, April 2024, pp. 1165-1184.
 24. Khorasani, Mehdi, Mostofinejad, Davood, and Muciaccia, Giovanni, **“Fatigue Behavior of CFRP Sheets Attached to Concrete Surface by Using EBROG Strengthening Method,”** *ACI Special Publication*, Vol. 360, March 2024, pp. 744-758.
 25. Lolaki, Asal, Zarrebini, Mohamad, Mostofinejad, Davood, Abtahi, Seyed Mehdi, and Shanbeh, Mohsen, **“Mechanical properties of a novel tri-component high stiff auxetic reinforced composite structure,”** *Journal of Reinforced Plastics and Composites*, Vol. 43, No. 5-6, March 2024, pp. 245-358.
 26. Khaghani, Omid, Mostofinejad, Davood, and Abtahi, Seyed Mehdi, **“Auxetic structures in civil engineering applications: Experimental (by 3D printing) and numerical investigation of mechanical behavior,”** *Results in Materials*, Vol. 21, March 2024, Article 100528, 12 pages.
 27. Bahmani, Hadi, and Mostofinejad, Davood, **“Novel UHPC with calcium-oxide-activated materials and fibres: engineering properties and sustainability evaluation,”** *Magazine of Concrete Research*, February 2024, 21 pages.
 28. Bahmani, Hadi, and Mostofinejad, Davood, **“A novel development of ultra-high-performance concrete with calcium oxide-activated materials and fibers: engineering properties and sustainability evaluation,”** *Magazine of Concrete Research*, February 2024, 14 pages.
 29. Hajiaghamemar, Mohammadreza, Mostofinejad, Davood, Dadvar, S. Ali, and Bahmani, Hadi, **“RC Columns Strengthened with Engineered Cementitious Composite (ECC) Jacketing,”** *European Journal of Environmental and Civil Engineering*, Vol. 28, Issue 2, February 2024, <https://doi.org/10.1080/19648189.2023.2214602>.

30. Aghamohammadi, Omid, Mostofinejad, Davood, Mostafaei, Hasan, and Abtahi, S. Mehdi, **“Mechanical Properties and Impact Resistance of Concrete Pavement Containing Crumb Rubber,”** *International Journal of Geomechanics, ASCE*, Vol. 24, No. 1, January 2024, Article 04023242, 10 pages.

2023

31. Bahmani, Hadi, Mostafaei, Hassan, Ghiassi, Bahman, Mostofinejad, Davood, and Wu, Chengqing, **“A Comparative Study of Calcium Hydroxide, Calcium Oxide, Calcined Dolomite, and Metasilicate as Activators for Slag-Based HPC,”** *Structures*, Vol. 59, December 2023, Article 105653, 14 pages.
32. Mostafaei, Hassan, Mostofinejad, Davood, Ghamami, Mahdi, and Wu, Chengqing, **“Fully Automated Operational Modal Identification of Regular and Irregular Buildings with Ensemble Learning,”** *Structures*, Vol. 58, December 2023, Article 10539, 22 pages.
33. Sadeghi, Ebrahim, Mostofinejad, Davood, and Saljoughian, Alireza, **“Manufacturing Engineering Cementitious Composites (ECC) with Available Materials in Iran and Reinforcing them Using Glass Grids,”** *Sharif Journal of Civil Engineering*, Sharif University of Technology, Vol. 39, No. 3, November-December 2023, pp. 25-35.
34. Mostofinejad, Davood, Aghamohammadi, Omod, Bahmani, Hadi, Ebrahimi, Saeed, **“Improving Thermal Characteristics and Energy Absorption of Concrete by Recycled Rubber and Silica Fume,”** *Developments in the Built Environment*, Vol. 16, December 2023, Article 100221, 13 pages.
35. Garakyaragh, Mehrdad, and Mostofinejad, Davood, **“Bond behavior between FRP sheet and FRP anchor,”** *Concrete Research*, Vol. 16, No. 4, November 2023, pp. 5-16.
36. Garakyaragh, Mehrdad, and Mostofinejad, Davood, **“Effect of Anchors on FRP-Concrete Bond Behavior in EBR and EBROG Joints,”** *Modares Civil Engineering Journal (M.C.E.J)*, Vol. 23, No. 5, November 2023, pp. 115-127.
37. Abdoli, Mahshid, and Mostofinejad, Davood, **“Torsional Behavior of FRP-Strengthened Reinforced Concrete Members Considering Various Wrapping Configurations: Theoretical Analysis and Modeling,”** *Construction and Building Materials*, Vol. 401, October 2023, Article 132636, 20 pages.
38. Khorasani, Mehdi, Muciaccia, Giovanni, Khorasani, Mehdi, Consiglio, Andrea Nino, and Mostofinejad, Davood, **“Evaluating the Behavior and Bond Properties of FRP Spike Anchors under Confined Conditions and Elevated Temperature,”** *Composite Structures*, Vol. 322, October 2023, Article 117407, 16 pages.
39. Shabani, Erfan, Mostofinejad, Davood, and Saljoughian, Alireza, **“Bond Behavior of Prestressed FRP Sheet-Concrete Joints: Comparison of EBROG and EBR Methods,”** *Construction and Building Materials*, Vol. 400, October 2023, Article 132752, 11 pages.
40. Bahmani, Hadi, and Mostofinejad, Davood, **“A Novel High-Performance Concrete Based on Calcium Oxide-Activated Materials Reinforced with Different Fibers,”** *Developments in the Built Environment*, Vol. 15, October 2023, Article 100201, 14 pages.

41. Mostafaei, Hassan, Bahmani, Hadi, Mostofinejad, Davood, and Wu, Chengqing “**A Novel Development of HPC without Cement: Mechanical Properties and Sustainability Evaluation,**” *Journal of Building Engineering*, Vol. 76, October 2023, Article 107262, 14 pages.
42. Eshaghi Milasi, Saadat, Mostofinejad, Davood, and Bahmani, Hadi, “**Improving the Resistance of Ultra-High-Performance Concrete Against Nuclear Radiation: Replacing Cement with Barite, Hematite, and Lead Powder,**” *Developments in the Built Environment*, Vol. 15, October 2023, Article 100190, 10 pages.
43. Mohammadian Tabrizi, Nima, Mostofinejad, Davood, and Eftekhari, Mohamadreza, “**Effects of Different Fibers and Cement Substituting Minerals on Mechanical Properties of Ultra-High-Performance Fiber-Reinforced Concrete,**” *ACI Materials Journal*, Vol. 120, No. 5, September 2023, pp. 15-29.
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THESES SUPERVISED (Ph.D.)

1. Zolfaghari, Shakiba (Ph.D.), *Experimental and Numerical Study of FRP-Concrete Joint’s Behavior across Width and Depth of Groove in EBROG Method*, September 2024.
2. Khorasani, Mehdi (Ph.D.), *Flexural and Shear Strengthening of Reinforced Concrete Shear Wall using FRP Composites Accompanied Grooving Method and Fans*, September 2024.
3. Mohammadsalehi, Ali (Ph.D.), *Behavior of Ultra-high Performance Concrete Canvas Miura-Origami Structures under Flexural Loading*, March 2024.
4. Heidari, Pouria (Ph.D.), *Flexural and Shear Strengthening of Reinforced Concrete Coupling Beams with FRP Sheets using EBROG Technique*, January 2024.
5. Jafarian, Navid (Ph.D.), *Shear Strengthening of Reinforced Concrete Slab-Column Connections with and without Opening Under Cyclic Loading using FRP and Steel Rods*, January 2024.
6. Bahmani, Hadi (Ph.D.), *High-Performance Concrete Alkali-Activated by Alkali Earth Metals and Made with Fibers*, December 2023.
7. Lolaki, Asalosadat (Ph.D.), *Experimental and Analytical Evaluation of Mechanical*

Behavior of Cementitious Mortar Reinforced by Auxetic Textile, September 2023.

8. Raji, Ali (Ph.D.), *Improving the In-plane and Out-of-plane Seismic Behavior of Masonry Walls by Reinforcing with Textile Reinforced Mortar (TRM) and Parallel Wires with High Resistance (PW-SRM)*, December 2022.
9. Torabian Esfahani, Ala (Ph.D.), *Experimental and Analytical Investigation of Flexural Behavior of RC Flat Slabs Strengthened with FRP Composites Under Concentric Loading*, September 2019.
10. Moshiri, Niloufar (Ph.D.), *Effect of the Externally Bonded Reinforcement on Grooves (EBROG) Method on the Bond Behavior of Prestressed CFRP Strips to Concrete*, September 2019.
11. Ilia, Elahe (Ph.D.), *Seismic Evaluation of Reinforced Concrete Strong Beam-Weak Column Joints Strengthened by Different Configuration of CFRP Composites*, September 2019.
12. Shomali, Amir (Ph.D.), *Investigation of the Behavior of Reinforced Concrete Beams Strengthened in Shear with CFRP Sheets through EBRIG Method*, April 2019.
13. Rostami, Rohollah (Ph.D.), *Behavior of Fiber Reinforced Concrete in Relation to Optimization of Fiber Properties*, December 2018.
14. Moghadas, Amirreza (Ph.D.), *FRP-Concrete Bond Strength, Effective Bond Length and Bond-Slip Models for Externally-Bonded Reinforcement on Grooves*, December 2018.
15. Saljoughian, Alireza (Ph.D.), *Strengthening of Concrete Columns Under Cyclic Axial and Transverse Loading Using FRP Composites*, September 2018.
16. Hajrasouliha, Mohamad javad (Ph.D.), *Shear Strengthening of Corner 3D Reinforced Concrete Beam-Column Joints Using FRP Composites*, April 2018.
17. Mohammadi, Mahdih (Ph.D.), *Environmental Effect on Debonding of FRP-to-Concrete Surface Using EBROG and EBR Techniques*, March 2017.
18. Akhlaghi, Alireza (Ph.D.), *Flexural and Shear Strengthening of Exterior Reinforced Concrete Beam-Column Joints Using FRP Composites*, February 2017.
19. Hosseini, Seyed Jalil (Ph.D.), *Strength and Ductility Capacity of Concrete Members Strengthened with Compressive FRP Plates*, May 2016.
20. Meisami, Mohamad Hassan (Ph.D.), *Punching Shear Strengthening of Flat Slabs with FRP Rods, Grid, and FRP Fan and Comparison with Other Methods*, February 2013.
21. Reisi, Mohamad, (Ph.D.), *A New Method to Predict Packing Density of Aggregates Mixture in Concrete Mix Design*, July 2012.
22. Talaeitaba, Seyed Behzad, (Ph.D.), *Shear - Torsion Strengthening of RC Beams Using FRP Laminates*, December 2011.
23. Eftekhari, Mohamad Reza, (Ph.D.), *Effect of Arrangement of Flexural Reinforcement*

and External Reinforcing on Debonding of Strengthening CFRP Laminates, April 2010.

24. Farahbod, Farhang, (Ph.D.), *A Study on Ductility and Moment Redistribution in RC Frame Members Strengthened with CFRP Laminates*, October 2007.

Post-Doctoral Fellows

1. Bahmani, Hadi (2024-present)
2. Mostafaei, Hassan (2021-2022)
3. Akhlaghi, Alireza (2018-2020)

Current Ph.D. Students

1. Rostampour, Ali (2017-present)
2. NoroozOlyae, Masoud (2018-present)
3. Arefian, Behnaz (2018-present)
4. Hatambeigi, Alireza (2019-present)
5. Shabani, Erfan (2023-present)

THESES SUPERVISED (M.Sc.)

1. Abdoli, Mahshid, *Experimental and Theoretical Investigation on Torsional Strengthening of Reinforced Concrete Beams Subjected to Torsion with FRP Composites Using Grooving Methods*, September 2023.
2. Heidari, Zahra, *Investigation of Mechanical Properties of Concrete Made with Waste of Cube-Sugar Factories (Recycle of Yellow Cake)*, September 2023.
3. Mahvash, Alireza, *Investigating the Mechanical and Thermal Properties of Fiber-Reinforced Concrete Containing Phase Change Materials (PCMs)*, September 2022.
4. Nagheh, Elnaz, *Experimental Study on Behavior of Reinforced Concrete Arches Strengthened with FRP Composites via Grooving Method*, September 2022.
5. Shabani, Erfan, *Bond Behavior of Prestressed FRP Composite Attached to Concrete via EBROG Method*, December 2021.
6. Damanafshan, Hossein, *Mechanical Properties and Durability of Roller Compacted Concrete Containing Modified Reclaimed Asphalt Pavement*, December 2021.
7. Karimi, Amin, *Reducing Surface Temperature of Lightweight Concrete with Phase Change Materials (PCMs)*, December 2021.
8. Ziaei Ghahnavieh, Ali, *Investigation of the Effect of Phase Change Materials with Low Phase Transition Temperature in Concrete Pavements Containing Slag on Mechanical*

- and Thermal Properties*, December 2021.
9. Faramarzian, Farnaz, *Health Monitoring and Crack Detection in Concrete Columns under Different Eccentric Loading and Concrete Specimen with Artificial Cracks using Modal Analysis Method*, December 2021.
 10. Savoj, Maryam, *Rehabilitation of 3D RC Beam-Column Joints with UHPFRC and Investigating Their Behavior under Cyclic Loading*, December 2021.
 11. Khaghani, Omid, *Approaching to the Technology of Energy Absorber Road Safeguards using Auxetic Structures*, November 2021.
 12. Garakyaragh, Mehrdad, *Effect of FRP Anchors on FRP-to-Concrete Bond Behavior*, November 2021.
 13. Jafari, Zahra, *Manufacture of Concrete Canvas and its Use in Flexural Strengthening of RC beams*, November 2021.
 14. Beheshtnejad, Ghazaleh, *Health Monitoring of Concrete Beam through Crack Detection and Investigating the Effect of Cracks on Modal Analysis Method Results*, September 2021.
 15. Eshaghi Milasi, Saadat, *Investigation of Flexural Behavior of RC Columns Reinforced with UHPFRC Jacketing*, February 2021.
 16. Mohammadian Tabrizi, Nima, *Investigation of Mechanical Properties of Ultra-High-Performance Fiber-Reinforced Concrete Using Optimum Cement and Mineral Admixtures*, October 2020.
 17. Halili, Atefeh, *Investigation of Mechanical and Physical Properties of Cement Mortar Reinforced with Bagasse Fiber Pulp and Rice Husk Ash*, September 2020.
 18. Zamani Ghaleh, Reza, *Experimental Evaluation of Failure Strain and Bond Strength of FRP Sheet-Concrete Joint in Grooving Method*, September 2020.
 19. Sadeghi, Ebrahim, *Manufacturing Engineered Cementitious Composite Panels Reinforced with Glass Fabric to Strengthen Reinforced Concrete Beams*, August 2020.
 20. Mohammadi, Fatemeh, *Groove Classification in Grooving Method and its Effect on FRP-Concrete Bond Behavior*, June 2020.
 21. Talaei, Mahtab, *Mechanical Properties of Concrete with Waste Porcelain Ceramic Aggregates and Fibers under Elevated Temperatures*, January 2020.
 22. Hajiaghamemar, Mohammadreza, *Axial Behavior of Circular Concrete Columns Strengthened with Engineered Cementitious Composite (ECC) Jackets*, January 2020.
 23. Gharibi, Hamed, *Investigation of the Mechanical and Thermal Characteristics of Concrete Made with Waste Materials, and Punic Plus Phase Change Materials (PCM)*, January 2020.
 24. Razavi, Mohammad, *Investigation of the Behavior RC Columns and their Strengthening*

- with FRP Composites Under Reversed Cyclic Eccentric Loading*, July 2019.
25. Aghamohamadi, Omid, *Investigating the Effective Parameters in Concrete pavements by Adding Modified Crumb Rubber*, June 2019.
 26. Dadvar, Sayyed Ali, *Axial Behavior of Circular Concrete Columns Strengthened with Ultra-High-Performance Fiber-Reinforced Jacket*, January 2019.
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