

RESUME

Davood Mostofinejad, Ph.D., PE
Distinguished Professor
Department of Civil Engineering
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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*

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-present.**

Honors

- **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 of 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 of 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 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

1. Title: Producing a Special Polycarboxylate-Based Plasticizer with High Early Fluidity and Slump Detention
Owners: Sharbaf, Mohamadreza, Hajareh Haghghi, Farid, and Mostofinead, Davood.
Serial No.: C04B 24/02; Invention Registry No.: 99288; Invention Registration Date: August 04, 2019.
2. Title: Corner Strip-Batten Technique for Confinement of Rectilinear Reinforced Concrete Columns with FRP
Owners: Mostofinead, Davood, and Ilia, Elahe.
Serial No.: A/89 – 002069; Invention Registry No.: 83579; Invention Registration Date: August 16, 2014.
3. Title: Externally Bonded Reinforcement on Groove (EBROG) to Sustain Compressive Capacity of Longitudinal CFRP Composites
Owners: Mostofinead, Davood, and Moshiri, Niloufar.
Serial No.: A/89 –; Invention Registry No.: ; Invention Registration Date: April 16, 2014.
4. Title: Shear Strengthening of Reinforced Concrete Beams with FRP Sheets Using VGM (Vertical Grooves Method)
Owners: Mostofinead, Davood, and Tabatabaei Kashani, Amir Homayoon.
Serial No.: A/89 – 030381; Invention Registry No.: 71404; Invention Registration Date: September 8, 2011.
5. 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: Mostofinead, Davood, Mahmudabadi, Ehsan, and Hosseini, Ardalan.
Serial No.: A/89 – 007957; Invention Registry No.: 70840; Invention Registration Date: July 27, 2011.
6. Title: EBRIG (Externally Bonded Reinforcement In Grooves) Method for Bonding FRP Laminates onto Concrete Beams
Owners: Mostofinead, 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 of Scientific Journals

- *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-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 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., 2019, 800 p.
2. Mostofinejad, D., *Reinforced Concrete Structures – Volume II*, 1st Ed., 2006, 35th Ed., 2019, 776 p. [“Book of the Year in 2008”](#)
3. Mostofinejad, D., *Reinforced Concrete Structures – Volume I*, 1st Ed., 2004, 49th Ed., 2019, 716 p. [“Book of the Year in 2008”](#)
4. Mostofinejad, D., *Concrete Technology and Mix Design*, 1st Ed., 1995, 50th Ed. 2019 (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

2021

1. Mostofinejad, Davood, Nosouhian, Farzaneh, and Tayebani, Bahareh, “**Evaluation of Mechanical Properties of Bacteria-Containing Mortar in Seawater Environment,**” *ACI Materials Journal*, In press.
2. Dadvar, Sayyed Ali, Mostofinejad, Davood, and Bahmani, Hadi, “**Strengthening of RC Columns with Combined UHPFRC and GFRP Jacketing,**” *ACI Structural Journal*, In press.
3. Hosseini Balam, Nafise, Tayebani, Bahareh, and Mostofinejad, Davood, “**Seawater Used as a Natural Medium for Curing Bacterially-Treated Concrete with Either Lightweight or Normal Weight Aggregates,**” *Journal of Materials in Civil Engineering, ASCE*, Vol. ??, Issue ??, August 2021, Article ????????, 11 pages.
4. Mohammadi, Mahdie, and Mostofinejad, Davood, “**CFRP-to-Concrete Bond Behavior under Aggressive Exposure of Sewer Chamber,**” *Journal of Composite Materials*, DOI: 10.1177/00219983211004699, 2021, 15 pages.
5. Sanginabadi, Khaled, and Mostofinejad, Davood, “**Effect of Aggregate Content on the CFRP-Concrete Effective Bond Length: An Experimental and Analytical Study,**” *Composite Structures*, Vol. 269, August 2021, Article 114044, 19 pages.
6. Mostofinejad, Davood, Khademolmomenin, Mahshid, and Tayebani, Bahareh “**Evaluating Durability Parameters of Concrete Containing Limestone Powder and Slag under Bacterial Remediation,**” *Journal of Building Engineering*, Vol. 40, August 2021, Article 102312, 14 pages.
7. Razavi, Mohammad, Mostofinejad, Davood, and Eftekhari, Mohammadreza, “**Behavior of RC Columns and Those Strengthened with FRP Composite under an Innovative Reversing Cyclic Eccentric Axial Loading,**” *Engineering Structures*, Vol. 241, August 2021, Article ??????, 21 pages.
8. Soleimani Borujerdi, Ali, Mostofinejad, Davood, and Hyeon-Jong, Hwang, “**Cyclic Loading Test for Shear-Deficient Reinforced Concrete Exterior Beam-Column Joints with High-Strength Bars,**” *Engineering Structures*, Vol. 237, June 2021, Article 112140, 15 pages.

9. Talaei, Mahtab, and Mostofinejad, Davood, **“Mechanical Properties of Fiber-Reinforced Concrete Containing Waste Porcelain Aggregates under Elevated Temperatures,”** *Construction and Building Materials*, Vol. 289, April 2021, Article 122854, 14 pages.
10. Mostofinejad, Davood, Salimian, Mohammad Sadegh, Taherirani, Maryam, and Noroozolyaee, Masood, **“Behavior of Square Slender RC Columns Strengthened with Longitudinal FRP Sheets Subjected to Eccentric Loading,”** *Journal of Composite for Construction, ASCE*, Vol. 25, Issue 2, April 2021, Article 04021006, 13 Pages.
11. Moghaddas, Amirreza, Mostofinejad, Davood, Saljoughian, Alireza, and Ilia, Elaheh, **“An Empirical FRP-Concrete Bond-Slip Model for Externally-Bonded Reinforcement on Grooves,”** *Construction and Building Materials*, Vol. 281, April 2021, Article 122575, 19 pages.
12. Torabian, Ala, Isudi, Brisid, Mostofinejad, Davood, and Ramos, Antonio Pinho, **“Shear and Flexural Strengthening of Deficient Flat Slabs with Post-installed Bolts and CFRP Composites Bonded through EBR and EBROG,”** *Structural Concrete*, Vol. 22, Issue 2, April 2021, pp. 1147-1164.
13. Saljoughian, Alireza, Mostofinejad, Davood, and Raji, Ali, **“Improving Retrofit of Concrete Columns with Fiber Strips using Grooves and Corner Battens,”** *Proceedings of the Institution of Civil Engineers-Structures and Buildings*, Vol. 28, March 2021, pp. 1-30, <https://doi.org/10.1680/jstbu.20.00187>.
14. Mostofinejad, Davood, Hosseini, S. Mohammad, Nadertehrani, Bahareh, and Hosseinian, S. Mehdi, **“Empirical Models for Prediction of Frost Resistance of Normal-and High-Strength Concretes,”** *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, March 2021, pp. 1-25, <https://doi.org/10.1007/s40996-020-00574-8>.
15. Mohammadi Ghahsareh, Fatemeh, and Mostofinejad, Davood **“Groove Classification in EBROG FRP-to-Concrete Joints,”** *Construction and Building Materials*, Vol. 275, March 2021, Article 122169, 15 pages.
16. Lolaki, Asal, Zarrebini, Mohammad, Mostofinejad, Davood, Shanbeh, Mohsen, and Abtahi, Sayyed Mahdi, **“Intensification of Auxetic Effect in High Stiffness Auxetic Yarns with Potential Application as the Reinforcing Element of Composite,”** *Journal of Industrial Textile*, 2021, <https://doi.org/10.1177/1528083720978918>.
17. Rostami, Rouhollah, Zarrebini, Mohammad, Abdellahi, S. Behzad, Mostofinejad, Davood, and Abtahi, Sayyed Mahdi, **“Investigation of Flexural Performance of Concrete Reinforced with Indented and Fibrillated Macro Polypropylene Fibers Based on Numerical and Experimental Comparison,”** *Structural Concrete*, Vol. 22, Issue 1, February 2021, pp. 250-263.
18. Moshiri, Niloufar, Czaderski, Christoph, Mostofinejad, Davood, and Motavalli, Masoud, **“Bond Resistance of Prestressed CFRP Strips Attached to Concrete by using EBR and EBROG Strengthening Methods,”** *Construction and Building Materials*, Vol. 266, Part B, January 2021, Article 121209, 14 pages.

19. Jafarian, Navid, Mostofinejad, Davood, and Naderi, Ali, “**Effects of FRP grids on punching shear behavior of reinforced concrete slabs,**” *Structures*, Vol. 28, December 2020, pp. 2523-2536.
20. Akhlagh, Alireza, and Mostofinejad, Davood, “**Experimental and Analytical Assessment of Different Anchorage Systems used for CFRP Flexurally Retrofitted Exterior RC Beam-Column Connections,**” *Structures*, Vol. 28, December 2020, pp. 881-893.
21. Bahmani, Hadi, Mostofinejad, Davood, and Dadvar, Sayyed Ali, “**Effects of Synthetic Fibers and Different Levels of Partial Cement Replacement on Mechanical Properties of UHPFRC,**” *Journal of Materials in Civil Engineering, ASCE*, Vol. 32, Issue 12, December 2020, Article 04020361, 14 pages.
22. Moshiri, Niloufar, Czaderski, Christoph, Mostofinejad, Davood, Hosseini, Ardalan, Sanginabadi, Khaled, Breveglieri, Matteo, and Motavalli, Masoud, “**Flexural Strengthening of RC Slabs with Nonprestressed and Prestressed CFRP Strips using EBROG Method,**” *Composites Part B: Engineering*, Vol. 201, November 2020, Article 108359, 14 pages.
23. Amoushahi, Mohsen, Zeinalian, Mehran, Hashemi, Mahmoud, Mostofinejad, Davood, and Farahbod, Farhang, “**Study on Shear Behavior and Capacity of Biaxial Ellipsoidal Voided Slabs,**” *Structures*, Vol. 27, October 2020, pp. 1075-1085.
24. Amoushahi, Mohsen, Zeinalian, Mehran, Hashemi, Mahmoud, Mostofinejad, Davood, Farahbod, Farhang, and Asadollahi, Hamed, “**Investigation of Flexural Behaviors of Biaxial Voided Slabs With Ellipsoidal Balls and Steel Cages,**” *Sharif Journal-Civil Engineering*, Sharif University of Technology, Vol. 36.2, No. 3.1, June-July 2011, pp. 29-37.
25. NoroozOlyae, Masoud, Taherirani, Maryam, and Mostofinejad, Davood, “**Experimental Study of Slenderness Effects on Behavior of Circular And Square RC Column Strengthened With FRP Sheets by Grooving Method Under Eccentric Loading,**” *Sharif Journal-Civil Engineering*, Sharif University of Technology, Vol. 36.2, No. 3.1, June-July 2011, pp. 3-11.
26. NoroozOlyae, Masoud, and Mostofinejad, Davood, “**Slender Columns Reinforced by HSS Rebars and Retrofitted by FRP Sheets,**” *ACI Structural Journal*, Vol. 117, No. 5, October 2020, pp. 53-66.
27. Shomali, Amir, Mostofinejad, Davood, and Esfahani, Mohammad Reza, “**Experimental and Numerical Investigation of Shear Performance of RC Beams Strengthened with FRP Using Grooving Method,**” *Journal of Building Engineering*, Vol. 31, September 2020, Article 101409, 15 pages.
28. NoroozOlyae, Masoud, and Mostofinejad, Davood, “**Closure to ‘Slenderness Effects in Circular RC Columns Strengthened with CFRP Sheets Using Different External Bonding Techniques’ by Masoud NoroozOlyae and Davood Mostofinejad,**” *Journal of Composite for Construction, ASCE*, Vol. 24, No. 4, August 2020, Article 07020005.

29. Hosseini, Seyed Mohammad, Mostofinejad, Davood, Saljoughian, Alireza, and Nader Tehrani, Bahareh, **“Seismic Retrofit of Square RC Short Columns with Shear-Flexural Failure Mode via CFRP Composites Using Different Confinement Techniques,”** *Journal of Composites for Construction*, Vol. 24, No. 4, August 2020, Article 04020029, 14 pages.
30. Salmasi, Farnaz, and Mostofinejad, Davood, **“Investigating the Effects of Bacterial Activity on Compressive Strength and Durability of Natural Lightweight Aggregate Concrete Reinforced with Steel Fibers,”** *Construction and Building Materials*, Vol. 251, August 2020, Article 119032, 13 pages.
31. Mostofinejad, Davood, and Mohammadi, Mahdieh, **“Effect of Freeze-thaw Cycles on FRP-Concrete Bond Strength in Externally-Bonded and EBROG Systems,”** *Journal of Composites for Construction*, Vol. 24, No. 3, June 2020, Article 04020009, 12 pages.
32. Iliia, Elahe, Mostofinejad, Davood, and Moghadas, Amir, **“Effects of High-Temperature Cyclic Behavior of Strong Beam–Weak Column Joints Strengthened with Different Configurations of CFRP Sheets,”** *Archives of Mechanical and Civil Engineering*, Vol. 20. Issue 2, June 2020, Article 31, 26 pages.
33. Mostofinejad, Davood, Jafarian, Navid, Naderi, Ali, Mostofinejad, Amirmahdi, and Salehi, Mohamad, **“Effects of Openings on the Punching Shear Strength of Reinforced Concrete Slabs,”** *Structures*, Vol. 25, June 2020, pp. 760-773.
34. Bahmani, Hadi, Mostofinejad, Davood, and Dadvar, Sayed Ali, **“Mechanical Properties of UHPFRC Containing Synthetic and Mineral Fibers,”** *ACI Materials Journal*, Vol. 117, No. 3, May 2020, pp. 155-168.
35. Saljoughian, Alireza, and Mostofinejad, Davood, **“Using Grooving and Corner Strip-Batten Techniques for Seismic Strengthening of Square Reinforced Concrete Columns with Fiber-Reinforced Polymer Composites,”** *Structural Concrete*, Vol. 21, May 2020, pp. 1-17.
36. Torabian, Ala, Isudi, Brisid, Mostofinejad, Davood, and Ramos, Antonio Pinho, **“Behavior of Thin Lightly Reinforced Flat Slabs under Concentric Loading,”** *Engineering Structures*, Vol. 211, May 2020, Article 110483, 14 pages.
37. Keshavarz, Zahra, and Mostofinejad, Davood, **“Effects of High-Temperature Exposure on Concrete Containing Waste Porcelain Coarse Aggregates and Steel Chips,”** *Journal of Building Engineering*, Vol. 29, May 2020, Article 101211, 15 pages.
38. Mostofinejad, Davood, Hosseini, S. Mohammad, Nosouhian, Farzaneh, Ozbakkaloglu, Togay, and Nader Tehrani, Bahareh, **“Durability of Concrete Containing Recycled Concrete Coarse and Fine Aggregates and Milled Waste Glass in Magnesium Sulfate Environment,”** *Journal of Building Engineering*, Vol. 29, May 2020, Article 101182, 11 pages.
39. Rostami, Rouhollah, Zarrebini, Mohammad, Sanginabadi, Khaled, Mostofinejad, Davood, Abtahi, Sayyed Mahdi, and Fashandi, Hossein, **“An investigation into Influence of Physical and Chemical Surface Modification of Macro-Polypropylene Fibers on**

Properties of Cementitious Composites,” *Construction and Building Materials*, Vol. 244, May 2020, Article 118340, 9 pages.

40. Hendi, Ali, Behravan, Amir, Mostofinejad, Davood, Akhavan Kharazian, Hamid, and Sedaghatdoost, Arash, **“Performance of Two Types of Concrete Containing Waste Silica Sources under MgSO₄ Attack Evaluated by Durability Index,”** *Construction and Building Materials*, Vol. 241, April 2020, Article 118140, 13 pages.
41. Rostami, Rouhollah, Zarrebini, Mohammad, Mandegari, Mansoor, Mostofinejad, Davood, and Abtahi, Sayyed Mahdi, **“A Review on Performance of Polyester Fibers in Alkaline and Cementitious Composites Environments,”** *Construction and Building Materials*, Vol. 241, April 2020, Article 117998, 15 pages.
42. Shomali, Amir, Mostofinejad, Davood, and Esfahani, Mohammad Reza, **“Analytical and Experimental Investigation of the RC Beams Shear-Strengthened with NSM Method along with Case Studies,”** *Modares Civil Engineering Journal (M.C.E.J)*, Vol. 19, No. 6, March 2020, pp. 115-127.
43. Hesami, Ebrahim, Mostofinejad, Davood, and Eftekhari, Mohamadreza, **“Investigation of the Mechanical Properties of Ultra High Performance Concrete Unreinforced and Reinforced with Steel fibers, Polypropylene and Polyvinyl Alcohol,”** *Concrete Research*, Vol. 12, No. 4, March 2020, pp. 5-18.
44. Shomali, Amir, Mostofinejad, Davood, and Esfahani, Mohammad Reza, **“Effective Strain of CFRP in RC Beams Strengthened in Shear with NSM Reinforcements,”** *Structures*, Vol. 23, February 2020, pp. 635-645.
45. Saljoughian, Alireza, and Mostofinejad, Davood, **“Behavior of RC Columns Confined With CFRP Using CSB Method Under Cyclic Axial Compression,”** *Construction and Building Materials*, Vol. 235, February 2020, Article 117786, 16 pages.
46. Dadvar, Sayyed Ali, Mostofinejad, Davood, and Bahmani, Hadi, **“Strengthening of RC Columns by Ultra-High Performance Fiber Reinforced Concrete (UHPFRC) Jacketing,”** *Construction and Building Materials*, Vol. 235, February 2020, Article 117485, 16 pages.
47. Amoushahi, Mohsen, Zeinalian, Mehran, Hashemi, Mahmoud, Mostofinejad, Davood, and Farahbod, Farhang, **“Investigation of Flexural and Shear Behaviors of Biaxial Voided Slabs Containing Steel Cages,”** *Structural Concrete*, Vol. 21, Issue 1, February 2020, pp. 291-302.
48. Karimi, Nasrin, and Mostofinejad, Davood, **“Bacillus Subtilis Bacteria used in Fiber Reinforced Concrete and Their Effects on Concrete Penetrability,”** *Construction and Building Materials*, Vol. 230, January 2020, Article 117051, 9 pages.

2019

49. Saljoughian, Alireza, and Mostofinejad, Davood, **“RC Columns Longitudinally Strengthened via Novel EBRIOG Technique,”** *Structural Concrete*, Vol. 20, Issue 6, December 2019, pp. 1-17.

50. Shomali, Amir, Mostofinejad, Davood, and Esfahani, Mohamadreza **“Experimental Study on Effect of EBRIG Shear Strengthening Method on the Behavior of RC Beams,”** *Advances in Concrete Construction*, Vol. 8, No. 2, October 2019, pp. 145-154.
51. Nader Tehrani, Bahareh, Mostofinejad, Davood, and Hosseini, Seyed Mohammad, **“Experimental and Analytical Study on Flexural Strengthening of RC Beams via Prestressed EBROG CFRP Plates,”** *Engineering Structures*, Vol. 197, October 2019, Article 109395, 12 pages.
52. Torabian, Ala, Isudi, Brisid, Mostofinejad, Davood, and Ramos, Antonio Pinho, **“Behavior of Thin Lightly Reinforced Flat Slabs under Concentric Loading,”** *Engineering Structures*, Vol. 196, October 2019, Article 109327, 16 pages.
53. Tajmir-Riahi, Amir, Moshiri, Niloufar, Czaderski, Christoph, and Mostofinejad, Davood, **“Effect of the EBROG Method on Strip-to-Concrete Bond Behavior,”** *Construction and Building Materials*, Vol. 220, Sept. 2019, pp. 701-711.
54. Ilia, Elahe, Mostofinejad, Davood, and Moghadas, Amirreza, **“Seismic Retrofit of Reinforced Concrete Strong Beam-Weak Column Joints Using EBROG Method Combined with CFRP Anchorage System,”** *Engineering Structures*, Vol. 194, Sept. 2019, pp. 300-319.
55. Mostofinejad, Davood, Hosseini, Mohammad, Nader Tehrani, Bahareh, Eftekhar, Mohamadreza, and Dyari, Mohsen, **“Innovative Warp and Wool Strap (WWS) Method to Anchor the FRP Sheets in Strengthened Concrete Beams,”** *Construction and Building Materials*, Vol. 218, Sept. 2019, pp. 351-364.
56. Tajmir-Riahi, Amir, Moshiri, Niloufar, and Mostofinejad, Davood, **“Inquiry into Bond Behavior of CFRP Sheets to Concrete Exposed to Elevated Temperatures – Experimental & Analytical Evaluation,”** *Composites Part B: Engineering*, Vol. 173, Sept. 2019, Article 106897, 14 pages.
57. Keshavarz, Zahra, and Mostofinejad, Davood, **“Steel Chip And Porcelain Ceramic Wastes Used as Replacements for Coarse Aggregates in Concrete,”** *Journal of Cleaner Production*, Vol. 195, Sept. 2019, pp. 218-230.
58. Moghadas, Amirreza, Mostofinejad, Davood, and Ilia, Elahe, **“Empirical FRP-Concrete Effective Bond Length Model for Externally Bonded Reinforcement on the Grooves,”** *Composites Part B: Engineering*, Vol. 172, Sept. 2019, pp. 323-338.
59. Saljoughian, Alireza, and Mostofinejad, Davood, **“RC Columns Longitudinally Strengthened via Novel EBRIOG Technique,”** *Structural Concrete*, Vol. 20, Issue 4, August 2019, <https://doi.org/10.1002/suco.201900151>.
60. Saljoughian, Alireza, Mostofinejad, Davood, and Hosseini, Seyed Mohamad, **“CFRP Confinement in Retrofitted RC Columns via CSB Technique Under Reversed Lateral Cyclic Loading,”** *Materials and Structures*, Vol. 52, Issue 4, August 2019, Article 67.
61. Heidari Mofrad, Mohsen, Mostofinejad, Davood, and Hosseini, Ardalan, **“A Generic Non-**

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THESES SUPERVISED (Ph.D.)

1. 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.

2. 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.
3. Iliia, Elahe (Ph.D.), *Seismic Evaluation of Reinforced Concrete Strong Beam-Weak Column Joints Strengthened by Different Configuration of CFRP Composites*, September 2019.
4. Shomali, Amir (Ph.D.), *Investigation of the Behavior of Reinforced Concrete Beams Strengthened in Shear with CFRP Sheets through EBRIG Method*, April 2019.
5. Rostami, Rohollah (Ph.D.), *Behavior of Fiber Reinforced Concrete in Relation to Optimization of Fiber Properties*, December 2018.
6. Moghadas, Amirreza (Ph.D.), *FRP-Concrete Bond Strength, Effective Bond Length and Bond-Slip Models for Externally-Bonded Reinforcement on Grooves*, December 2018.
7. Saljoughian, Alireza (Ph.D.), *Strengthening of Concrete Columns Under Cyclic Axial and Transverse Loading Using FRP Composites*, September 2018.
8. Hajrasouliha, Mohamad javad (Ph.D.), *Shear Strengthening of Corner 3D Reinforced Concrete Beam-Column Joints Using FRP Composites*, April 2018.
9. Mohammadi, Mahdieh (Ph.D.), *Environmental Effect on Debonding of FRP-to-Concrete Surface Using EBROG and EBR Techniques*, March 2017.
10. Akhlaghi, Alireza (Ph.D.), *Flexural and Shear Strengthening of Exterior Reinforced Concrete Beam-Column Joints Using FRP Composites*, February 2017.
11. Hosseini, Seyed Jalil (Ph.D.), *Strength and Ductility Capacity of Concrete Members Strengthened with Compressive FRP Plates*, May 2016.
12. 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.
13. Reisi, Mohamad, (Ph.D.), *A New Method to Predict Packing Density of Aggregates Mixture in Concrete Mix Design*, July 2012.
14. Talaeitaba, Seyed Behzad, (Ph.D.), *Shear - Torsion Strengthening of RC Beams Using FRP Laminates*, December 2011.
15. Eftekhari, Mohamad Reza, (Ph.D.), *Effect of Arrangement of Flexural Reinforcement and External Reinforcing on Debonding of Strengthening CFRP Laminates*, April 2010.
16. Farahbod, Farhang, (Ph.D.), *A Study on Ductility and Moment Redistribution in RC Frame Members Strengthened with CFRP Laminates*, October 2007.

Current Ph.D. Students

1. Khorasani, Mehdi (2016-present)
2. Zolfaghari, Shakiba (2016-present)
3. Jafarian, Navid (2016-present)
4. Raji, Ali (2016-present)
5. Heidari, Pouria (2016-present)
6. Rostampour, Ali (2017-present)
7. Mohamadsalehi, Ali (2017-present)
8. Lolaki, Asal (2017-present)
9. NoroozOlyae, Masoud (2018-present)
10. Arefian, Behnaz (2018-present)
11. Hatambeigi, Alireza (2019-present)
12. Bahmani, Hadi (2020-present)

THESES SUPERVISED (M.Sc.)

1. Eshaghi Milasi, Saadat, *Investigation of Flexural Behavior of RC Columns Reinforced with UHPFRC Jacketing*, February 2021.
2. Mohammadian Tabrizi, Nima, *Investigation of Mechanical Properties of Ultra High-Performance Fiber-Reinforced Concrete Using Optimum Cement and Mineral Admixtures*, October 2020.
3. Halili, Atefeh, *Investigation of Mechanical and Physical Properties of Cement Mortar Reinforced with Bagasse Fiber Pulp and Rice Husk Ash*, September 2020.
4. Zamani Ghaleh, Reza, *Experimental Evaluation of Failure Strain and Bond Strength of FRP Sheet-Concrete Joint in Grooving Method*, September 2020.
5. Sadeghi, Ebrahim, *Manufacturing Engineered Cementitious Composite Panels Reinforced with Glass Fabric to Strengthen Reinforced Concrete Beams*, August 2020.
6. Mohammadi, Fatemeh, *Groove Classification in Grooving Method and its Effect on FRP-Concrete Bond Behavior*, June 2020.
7. Talaei, Mahtab, *Mechanical Properties of Concrete with Waste Porcelain Ceramic Aggregates and Fibers under Elevated Temperatures*, January 2020.
8. Hajiaghmemar, Mohammadreza, *Axial Behavior of Circular Concrete Columns Strengthened with Engineered Cementitious Composite (ECC) Jackets*, January 2020.
9. Gharibi, Hamed, *Investigation of the Mechanical and Thermal Characteristics of Concrete Made with Waste Materials, and Punic Plus Phase Change Materials (PCM)*, January 2020.
10. Razavi, Mohammad, *Investigation of the Behavior RC Columns and their Strengthening*

with FRP Composites Under Reversed Cyclic Eccentric Loading, July 2019.

11. Aghamohamadi, Omid, *Investigating the Effective Parameters in Concrete pavements by Adding Modified Crumb Rubber*, June 2019.
12. Dadvar, Sayyed Ali, *Axial Behavior of Circular Concrete Columns Strengthened with Ultra-High-Performance Fiber-Reinforced Jacket*, January 2019.
13. Karimi Ghahverokhi, Nasrin, *Influence of Bacteria on Water Absorption and Durability Improvement of Concrete Reinforced by Fibers*, December 2018.
14. Salmasi, Farnaz, *Effect of Bacteria on Strength, Durability, and Permeability of Structural Lightweight Concrete with Natural Aggregates Reinforced by Steel Fibers*, December 2018.
15. Hesami, Ebrahim, *Influence of Mechanical Properties of Ultra-High-Performance Concrete (UHPC) with and without Steel, Polypropylene and Polyvinyl Alcohol Fibers*, August 2018.
16. Hosseini, Seyed Mohammad, *Seismic Retrofit of Short Reinforced Concrete Columns Using CFRP Composites*, June 2018.
17. Nadertehrani, Bahareh, *Strengthening of Reinforced Concrete Beams with Prestressed CFRP composites Using EBROG Method*, June 2018.
18. Bahmani, Hadi, *Mechanical Properties of Ultra-High-Performance Concrete Reinforced with Fibers (UHPFRC)*, May 2018.
19. Keshavarz, Zahra, *The Study of Using Waste Ceramic and Steel Chips in Concrete Under The Effect of Temperature*, September 2017.
20. Taherirani, Maryam, *Experimental Study on Behavior of Slender Reinforced Concrete Columns Strengthened with Longitudinal FRP Using Grooving Method Under Eccentric Load*, June 2017.
21. Norouz Olyaei, Masoud, *Experimental Study of Slenderness Effects on Behavior of Circular RC Column Strengthened with FRP sheets by Grooving Method under Constant Eccentric Loading*, May 2017.
22. Khademolghoran, Mahshid, *Effect of Bacteria on Concrete Containing Limestone Powder and Slag*, December 2016.
23. Parastegari, Niloufar, *Influence of Bacteria on Performance of Air-Entrained Concrete*, December 2016.
24. Salimian Rizi, Seyed Sadegh, *Evaluation of Behavior of FRP-to-Concrete Joint under Different Rates of Loading*, June 2016.
25. Soleimani, Ali, *Flexural Behavior of Concrete Beams Reinforced by High Strength Steel under Static Loading*, June 2016.
26. Alavi Dehkordi, Mehdi, *Experimental Evaluation of Effect of High Strength Bars on Behavior of Reinforced Concrete Columns*, June 2016.

27. Sanginabadi, Khaled, *Evaluation of Coarse Aggregates Volume and Size on Loading Capacity and Effective Bond Length of FRP-to-Concrete Joint by Strain Field Analysis Using PIV Method*, September 2015.
28. Parsian, Hassan, *Feasibility of Modeling Electrical Conductivity of Concrete*, September 2015.
29. Tayebani, Bahareh, *Influence of Bacteria on Electrical Resistivity of Concrete*, September 2015.
30. Hosseini Balam, Nafiseh, *Influence of Bacteria on Water Absorption and Durability Improvement of Structural Light Weight Aggregate Concrete*, September 2015.
31. Arefian, Behnaz, *Experimental Evaluation of FRP-to-Concrete Effective Bond Length*, January 2015.
32. Ghorbani, Majid, *Evaluation of FRP-to-Concrete Bond Behavior Under Primary Angle*, January 2015.
33. Heidari Mofrad, Mohsen, *Bond-Slip Relationship of Grooving Method by Strain Analysis using Particle Image Velocimetry (PIV)*, January 2015.
34. Torabian Esfahani, Ala, *Experimental Study on Behavior of Circular Columns under Eccentric Compression Strengthened with Longitudinal FRP using Grooving Method*, September 2014.
35. Orooji, Mohsen, *Numerical Study of Effect of Interval of Grooves on Behavior of FRP Strengthened Concrete Beam with Grooving Method*, September 2014.
36. Naderi, Ali, *Numerical Study of Effect of Type and Arrangement of FRP Bolts and Grids on Increasing the Punching Shear Capacity of Strengthened Two-Way Slabs*, December 2013.
37. Razavi, Behzad, *Shear Strengthening of RC Beams with FRP Sheets using Externally Bonded Reinforcement In Grooves (EBRIG) Method*, October 2013.
38. Nosouhian, Farzaneh, *Durability Improvement in Sulfate Environment using Bacterial Concrete*, September 2013.
39. Saljoughian, Alireza, *Axial and Bending Behavior of Square Concrete Columns Strengthened with Vertical FRP Strips at Corners and FRP Strips at Sides*, August 2013.
40. Diari, Mohsen, *Wrap and Woof Strap (WWS) Method for Strengthening of Concrete Beams with FRP Sheets and Comparison with Other Conventional Methods*, April 2013.
41. Hosseini, Ardalan, *Evaluation of FRP-to-Concrete Effective Bond Length by Strain Analysis Using Particle Image Velocimetry (PIV)*, February 2013.
42. Iliia, Elaheh, *Axial Behavior of Rectangular Concrete Columns Strengthened with FRP Strips at Corners and FRP Battens at Sides*, January 2013.
43. Moshiri, Niloofar, *Compressive Strengthening of Columns Using FRP Composites with*

Vertical Fibers and Grooving Method, January 2013.

44. Khozaei, Kamyar, *Determination of Effective Length of Grooves in Grooving Method to Prevent Debonding Considering Number of Layers*, September 2012.
45. Rostami Nikoo, Mojtaba, *Technological Study of Reactive Powder Concrete (RPC) and Combined Effect of Nano-SiO₂ and Silica Fume on it*, March 2012.
46. Asgarian, Parsa, *Strut-and-Tie Modeling for Boundary Elements of RC Shear Walls with Openings*, December 2011.
47. Ebrahimipur Koomoleh, Hooman, *The Nonlinear Finite Element Analysis of FRP Strengthened RC Beams with Externally Bonded Reinforcement On Grooves (EBROG) Technique*, October 2011.
48. Moghadas Bidabadi, Amir Reza, *Effect of Grooving Method Instead of Conventional Surface Preparation on Flexural Failure Mechanism of Concrete Beams Strengthened with FRP Sheets*, 2011.
49. Shameli, Seyed Masoud, *Externally Bonded Reinforcement In Grooves (EBRIG) Technique to Attach FRP Laminates to Concrete Beams*, 2011.
50. Tabatabaei Kashani, Amir Homayoon, *Grooving as a Substitute of Surface Preparation to Postpone Debonding of Shear Strengthening FRP Laminates from Concrete Surface*, 2011.
51. Parham Samea, *Numerical Analysis of FRP Strengthened Beam with Longitudinal Grooves*, 2011.
52. Ahmadi, Sepideh, *Evaluation of New Moment-Resistant Precast Concrete Beam-Column Connections Using FE Method*, 2010.
53. Mohammadi Samani, Ali, *Effect of Corner Radius on Axially-Loaded Square RC Columns Confined with FRP Laminates*, 2010.
54. Hajrasouliha, Mohamad Javad, *Dimension Effect of Grooving Method on Debonding of FRP Sheets*, 2010.
55. Mortazavi, Nasrin, *Behavior of Rectangular Concrete Columns Confined with FRP Considering Effect of Corner Radius*, 2010.
56. Mohamadi Anaei, Maryam, *The Effect of FRP Strengthening of Boundary Elements on Shear Wall Behavior*, 2009.
57. Karimi, Amir, *Investigation of Out-of-Plane Behavior of Masonry Walls Strengthened with FRP Laminates Using Nonlinear FEM*, 2009.
58. Mirmontazeri, Seyed Kaveh, *Rehabilitation of Reinforced Concrete Coupling Beams*, 2009.
59. Daneshfar, Naser, *Effect of Strengthening of Continuous RC Beams with FRP Laminates on Moment Redistribution under Vertical Loads*, 2009.

60. Mahmoudabadi, Ehsan, *Grooving as an Alternative Method of Surface Preparation to Postpone Debonding of FRP Laminates*, 2009.
61. Erfani, Masoumeh, *Effect of Foundation Flexibility on the Behavior of RC Frame Structures*, 2009.
62. Hoseini, S. Jalil, *Modeling of FRP-Concrete Interface Debonding in Strengthened Reinforced Concrete Beams with Some Case Studies*, 2009.
63. Douidi, Hossein, *Seismic Vulnerability Assessment of Bridges, Retrofitted by Columns Concrete Jacketing, Using Fragility Functions*, 2008.
64. Nasri, Ehsan, *An Innovative Lightweight Floor System Using Steel Joist and Prefabricated Concrete Panels*, 2008.
65. Hajihashemi, Ali, *Strengthening of RC Beams Using Pre-stressed CFRP and Near Surface Mounted (NSM) Technique*, 2008.
66. Noormohamadi, Mohsen, *Predicting the Response of RC Beams Strengthened with FRP, Subjected to Shear, Moment and Axial Force Using Modified Compression Field Theory*, 2006.
67. Fazeli, Mohamad Ali, *Strengthening of Two-Way Slabs with FRP Laminates to Increase the Punching Shear Capacity*, 2005.
68. Rahgozar, Nima, *Strengthening of Precast Concrete Connections with FRP Laminates*, 2005.
69. Saadatmand, Hassan, *Modeling of RC Columns Confined with FRP Composites*, 2004.
70. Nazari Monfared, Hamed Hossein, *Evaluation of Effect of Concentration and Type of Sulfate Ion Sea Water and Successive Wetting and Drying on Concrete Containing Silica Fume, Slag and Limestone Powder*, 2004.
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