

Brief Curriculum Vitae

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Main Teaching Activities

Concrete Technology, Fracture Mechanics of Concrete, Structural Engineering.

Academic Background

BSc (Science and Technology University of Iran); MSc (Science and Technology University of Iran); PhD (AmirKabir University of Iran-Leeds University of England)

Current Researches

Creep, drying shrinkage and autogenous shrinkage of high strength concrete

Effects of chemical and mineral admixtures are being assessed and models developed.

Fresh and hardened properties of self-compacting concrete

Effects of chemical and mineral admixtures are being assessed and models developed

Fracture Mechanics of Concrete

Fracture mechanics of self-compacting lightweight concrete is studied and models developed

Publications

Refereed Conference Proceedings

1. Ramezaniapour, A.A. and Mazloom, M., “Effect of silica fume on setting time and autogenous shrinkage of high-strength concrete”, *3rd International Conference on Concrete*, AmirKabir University of Technology, Tehran, Iran, May 2000 (Persian).
2. Ramezaniapour, A.A. and Mazloom, M., “Effect of silica fume on time-dependent behaviour of high-strength concrete”, *3rd International Conference on Concrete*, AmirKabir University of Technology, Tehran, Iran, May 2000 (Persian).
3. Brooks, J.J., Megat Johari, M.A. and Mazloom, M., “Autogenous shrinkage of high-strength concrete from very early age”, *Concrete Communication Conference*, British Cement Association, Cardiff University, United Kingdom, June 1999, pp. 219-231.
4. Ramezaniapour A.A. and Mazloom, M. “Shrinkage and creep of high-strength concretes containing silica fume”, *The First fib Congress*, Osaka, Japan, October 2002, Session 9, pp. 309-318.
5. Mazloom M. and Ramezaniapour, A.A. “Setting Times and autogenous shrinkage before demoulding of high-strength concrete”, *27th Conference on Our world in Concrete and Structures*, Singapore, August 2002, pp. 343-350.
6. Mazloom M. and Ramezaniapour, A.A. “Long-term effects of silica fume on high-strength concrete columns”, *28th Conference on Our world in Concrete and Structures*, Singapore, August 2003, pp. 389-396.
7. Mazloom, M. “Assessment and repair of expansive cracks in concrete slabs of industrial structures”, *5th Asia-Pacific Structural Engineering and Construction Conference (APSEC 2003)*, Malaysia, August 2003, pp. 549-555.
8. Mazloom, M. “Strength and Secant modulus of elasticity of high-strength concrete containing silica fume”, *1st National Congress of Civil Engineering*, Sharif University of Technology, Tehran, Iran, Paper Code 83-1097, May 2004 (Persian).
9. Ramezaniapour A.A. and Mazloom, M. “Drying shrinkage of high-strength concrete containing silica fume”, *Civil Engineering Conference*, Sharif University of Technology, Tehran, Iran, April 1997, (Persian).
10. Mazloom, M. “Predicting time-dependent behaviour of high-strength concrete”, *29th Conference on Our world in Concrete and Structures, Singapore*, August 2004, pp. 365-372.
11. Mazloom, M. “Effect of silica fume on scheduling the construction stages of high-strength concrete”, *2nd International Conference of Concrete and Development*, Building and Housing Research Center, Tehran, Iran, May 2005, CD7-010.
12. Mazloom, M. and Mehrabian, A.A. “Conceptual design of safe room in masonry buildings”, *3rd International Conference on Conceptual Approach to Structural Design*, Singapore, August 2005, pp. 139-144.
13. Mazloom M. and Mehrabian, A.A. “Operation of safe rooms in a three storey masonry building”, *1st International Conference on Structural Condition Assessment, Monitoring and Improvement*, Perth, Australia, December 2005, pp. 239-245.
14. Mazloom, M. and Mehrabian, A.A. “Detail design of safe room: structural view”, *6th International Conference on Shock & Impact Loads on Structures*, Perth, Australia, December 2005, pp. 383-390.

15. Mazloom, M. and Mehrabian, A.A. "A new method for saving the occupants of old buildings from earthquake", *The Conference of Geohazards, Natural Disasters and Methods of Confronting with Them*, Tabriz University, September 2005, Paper No. 239.
16. Mazloom, M. "Construction of slabs on ground without using tension reinforcement", *30th Conference on Our world in Concrete and Structures*, Singapore, August 2005.
17. Mazloom, M. "Installation of safe rooms in masonry buildings against earthquake", *1st International Congress on Seismic Retrofitting*, Tehran, Iran, April 2006, Paper No. 822.
18. Mazloom, M. "Assessment of different time-dependent models in high-strength concrete", *31st Conference on Our world in Concrete and Structures*, Singapore, August 2006, pp. 251-258.
19. Mazloom, M. "Comparing static linear and nonlinear analyses of safe rooms in a poor performance masonry building", *6th International Conference on Earthquake Resistant Engineering Structures*, Bologna, Italy, June 2007, 259-268.
20. Mazloom, M. "Pushover, response spectrum and time history analyses of safe rooms in a poor performance masonry building", *Seismic Engineering International Conference*, Messina and Reggio Calabria, Italy, July 2008, 1767-1774.
21. Mazloom, M. and Hassanloo, A. "Effect of silica fume and superplasticizers on tensile strength of concrete", *34th Conference on Our world in Concrete and Structures*, Singapore, August 2009, 201-207.
22. Mazloom, M. and Ranjbar, A. "Relation between workability and strength of self-compacting concrete", *35th Conference on Our world in Concrete and Structures*, Singapore, August 2010, 315-322.
23. Yoosefi, M.M. and Mazloom, M. "Application of artificial neural networks on estimating the workability of concrete", *The National Conference on Civil Engineering and Sustainable Development*, Estahban, Iran, February 2011.
24. Pashae, S. and Mazloom, M. "Estimating the static stability of SCC and its segregation", *The First Regional Civil Engineering Conference*, Jouybar, Iran, May, 2011, 365-368.
25. Afkar Borjee, H. and Mazloom, M. "Effect of column to beam stiffness ratio on the ductility of moment frames using genetic algorithm", *The First Regional Civil Engineering Conference*, Jouybar, Iran, May, 2011.
26. Rami, J. and Mazloom, M. "Effect of the cracking ratio of shear walls on the analysis and design of concrete structures", *The First Regional Civil Engineering Conference*, Jouybar, Iran, May, 2011, 289-294.
27. Rami, J. and Mazloom, M. "Application of statistics analysis in engineering researches", *The 3rd National Conference on Education*, Tehran, Iran, May, 2011, 1-9.
28. Mazloom, M. and Ranjbar, A. "Effects of silica fume and superplasticizer dosage on fresh and hardened properties self-compacting concrete", *Advances in Structural Engineering and Mechanics*, Seoul, Korea, September, 2011, 3420-3430.
29. Yoosefi, M.M., Mazloom, M. and Ebrahimpour, R. "Comparison of data combination and combined neural networks on estimating the experimental results of SCC", *The 4th National Conference on Retrofitting and preservation of historical monuments and buildings*, Khomein, Iran, October, 2011.
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- concrete building codes on estimating the tensile strength of SCC”, *The 3rd National Conference on Urban Development*, Sanandaj, Iran, October, 2011.
31. Momeni, K. and Mazloom, M. “Modeling the bonding between concrete and FRP reinforcement utilizing Abaqus software”, *The First National Conference on Civil Engineering*, Zangebar, Iran, February, 2012.
 32. Ahmadinejad, A. and Mazloom, M. “Effect of vertical shear link in retrofitted concrete structures and its modeling in SAP2000 software”, *The First Regional Conference on Civil Engineering*, Lahijan, Iran, February, 2012.
 33. Fazli, R. and Mazloom, M. “Retrofitting of concrete moment frames using shotcreated partitions”, *The First National Conference on Civil Engineering*, Zibakenar, Iran, February, 2012.
 34. Momeni, K. and Mazloom, M. “Modeling the bonding of FRP reinforcement and concrete using Abaqus software”, *The First National Conference on Civil Engineering*, Zibakenar, Iran, February, 2012.
 35. Mazloom, M. and Yoosefi, M.M., “Estimating the rupture modulus of self-compacting concrete using combined artificial neural networks”, *International Conference on Civil Engineering*, Penang, Malaysia, 2012, 384-391.
 36. Yoosefi, M.M., Mazloom, M. and Ebrahimpour, R. “Comparing combined artificial neural networks and Iranian concrete building code on estimating the compressive strength of SCC”, *4th Iranian national Conference on concrete*, Tehran, Iran, 2012.
 37. Yoosefi, M.M., Mazloom, M. and Ebrahimpour, R. “Using different artificial neural networks in estimating long-term strength of SCC”, *9th International Congress on Civil Engineering*, Isfahan, Iran, 2012.
 38. Fazli, R., Mazloom, M. and Mahmoudi, M. “Strengthening of masonry walls containing openings with shotcrete”, *International Conference of new researches in Engineering*, KhomeiniShar, Iran, 2013.
 39. Mazloom, M. and Salehpour, S. “Studying the rigid link beam connections to columns in EBF braces”, *Second National Conference of Structure-Earthquake – Geotechnic*, Babolsar, Iran, 2012.
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 45. Mazloom, M. and Farahani, S. “Studying the compressive and flexural strength of SCC containing leca lightweight aggregates”, *5th Iranian national Conference on concrete*, Tehran, Iran, 2013.
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52. Mazloom, M., ShahVeisi, M. and Jafari, H. "Estimating the correlation of different earthquake parameters with damage index in reinforced concrete frames", *The 2014 Conference on Civil and Architectural Engineering and Urban Sustainable Management*, Gorgan, Iran, 2014, 1-15.
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55. Mazloom, M. and Salehi, V. "Calibrating the abaqus software results for modeling the bracing connections ", *2nd International Congress on Structure, Architecture, and Urban Development*, Tabriz, Iran, 2014, 1-7.
56. Mazloom, M. and Hatami, H. "Studying the cement industry in Iran and suggesting applied methods for minimizing the environmental problems", *National Conference of Civil and Environmental Engineering*, Ghazvin, Iran, 2015, 1-7.
57. Mazloom, M., Hatami, H. and Vosoog, S. "Mix design of SCLC using magnetic water", *International Conference of Civil, Architectural and Urban Engineering in the 3rd millennium*, Tehran, Iran, 2015, 1-9.
58. Mazloom, M., Hatami, H., Saremian, E. and Naserifar, M. "Studying the magnetic water effects on the characteristics of self-compacting lightweight concrete ", *National Conference of Architectural and Civil Engineering*, Koohdasht, Iran, 2015, 1-7.
59. Mazloom, M., Hatami, H., Sayadi, A. "Estimating environmental pollutions caused by cement and concrete industries", *3rd National Conference of Environmental and Agricultural Researches*, Hamedan, Iran, 2015, 1-7.
60. Mazloom, M., and Mehvand. M. "Compressive and torsional Strength of SCC", *International Conference on Advances in Civil and Environmental Engineering*, Pinang, Malaysia, 2015, 129-139.
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67. Afkar Borji, H. and Mazloom, M. "Estimating the ductility of moment frames without using equations and with genetic algorithm and neural networks ", *4th National Conference on Application of Novel Technologies in Engineering Science*, Torbat Heidarieh University, Torbat Heidarieh, Iran, 2017, 1-18.
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70. Mazloom, M. and Salehi, H. "The relationship between fracture toughness and compressive strength of self-compacting lightweight concrete", *14th International Conference on Concrete Engineering and Technology*, University of Malaya, Kuala Lumpur, Malaysia, 2018, 1-13.
71. Mazloom, M. and Mirzamohammadi S. "Rupture modulus of cement mortars with different types of fibers", *7th International Congress on Technology Engineering and Science*, Asia Pacific University, Kuala Lumpur, Malaysia, 2019, 147-155.
72. Mirzamohammadi, S., Mazloom, M. and Akbari Jamkarani, M. "Experimental investigation on the effects of using polypropylene fibers on the mechanical and thermal properties of engineered cementitious composite ", *6th National Conference on Applied Research in Civil Engineering, Architecture and Urban Management*, Khajeh Nasir Toosi University of Technology, Tehran, Iran, 2019, 1-9.
73. Bahraman, M., Jandaghi Alaei, F. and Mazloom, M. "Effect of polyolefin fibers on the fracture energy of fiber reinforced concrete", *14th National Congress on Civil Engineering*, University of Zanjan, Zanjan, Iran, 2024, 1-8.
74. Abbasi Zargaleh, M.R. and Mazloom, M. "Optimizing the compressive strength of lightweight geopolymer concrete by adjusting the activator to

- binder ratio”, *1st National ECO Concretes Conference*, University of Zanjan, Zanjan, Iran, 2025, 1-6.
75. Mazloom, M. and Abbasi Zargaleh, M.R. “Quantitative analysis of the effect of maximum aggregate size on the mechanical properties of lightweight geopolymer concrete.”, *1st National ECO Concretes Conference*, University of Zanjan, Zanjan, Iran, 2025, 1-6.
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Journals

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7. Mazloom, M. “Estimating Long-Term Creep and Shrinkage of High-Strength Concrete”, *Cement & Concrete Composites*, Vol. 30, 2008, pp. 316-326.
8. Mazloom, M. and Mehrabian, A.A. “Pullback test for seismic performance evaluation of safe rooms”, *International Journal of Civil Engineering* , Vol. 7, No.4, 2009, pp. 280-288.
9. Mazloom, M. “Comparing conventional, computerized and combined methods on educating the lateral resistance systems of buildings”, *Journal of technology of Education*, Vol.3, No.4, 2009, pp. 315-321 (Persian).
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35. Gholipour, M. and Mazloom, M. "Seismic response analysis of mega-scale buckling-restrained bracing systems in tall buildings", *Advances in Computational Design*, Vol. 3, No.1, 2018, 17-34.
36. Mazloom, M., Soltani, A., Karamloo, M., Hasanloo, A. and Ranjbar, A. "Effects of silica fume, superplasticizer dosage and type of superplasticizer on the properties of normal and self-compacting concrete", *Advances in Material Research*, Vol.7 No.1, -2018, 407-434.
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