

## **Dr. Hesam Madani**

**(Vice President of the Iranian Concrete Society)**



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- Associate Professor of Civil Engineering, Graduate University of Advanced Technology, Kerman, Iran
- Distinguished teaching Professor at 2019, Graduate University of Advanced Technology, Kerman, Iran
- PhD of Structural Engineering, Khajeh Nasir University of Technology, Tehran, Iran
- The main member of the scientific committee of the 5<sup>th</sup> chapter of the Building Code of Iran.
- The main member of the scientific committee of the Concrete Specifications of Iran(ABA).
- The main member of the scientific committee for preparation of the Guidelines of design, construction and maintenance of roller compacted Concrete Pavements
- The Inspector of the Committee of the 2025 comprehensive prospect document of Concrete industry in southeastern provinces of Iran.
- Several workshops on the subjects of the concrete technology

***Reviewer of the Journals:***

“ACI Materials Journal, Structural Concrete, Construction and Building Materials, Journal of Building Engineering, Practice Periodical on Structural Design and Construction, Civil Engineering Infrastructures Journal, Journal of Rehabilitation in Civil Engineering, Concrete Materials and Structures, Sharif Journal of Civil Engineering, Amirkabir Journal of Civil Engineering, Journal of Transportation Infrastructure Engineering, Ferdowsi Journal of Civil Engineering, Journal of Concrete Research, AUT Journal of Civil Engineering, Chilean Journal of Construction, International Journal of Coastal and Offshore Engineering, Iranian Journal of Science and Technology, Transactions of Civil Engineering, International Journal of Civil Engineering, International Journal of Concrete Structures and Materials ”

***The studied courses in the University:***

Theory of Finite Elements, Theory of Elasticity, Advanced Concrete Technology, Advanced Design of Concrete Structures, Seismic Design of Concrete Structures, Tall Buildings, Special Concretes, Statics, Strength of Materials,

***Research Projects:***

1. Bagheri A, Parhizkar T, Madani H, Raisghasemi AM., The investigation on the influence of nanosilicas with different types and dimensions on the durability and mechanical characteristics of cement based materials, Building and Housing Research Center, 2012.
2. Madani H, The mechanical and durability properties of roller compacted concrete pavements, Graduate University of Advanced technology, 2013.
3. Madani h, Ramezaniapour AK, The natural and synthetic cement replacement materials and production of durable concretes to enhancing the service life of reinforced concrete, Iran’s National Elites Foundation, 2014.
4. Madani H, et al, the feasibility of the construction of concrete pavements in Kerman province and preparation of the executive guidelines in the hot and dry environments, Housing and Urban Development Research Center, 2014.
5. Ramezaniapour AK, Madani H, A feasibility study on the of production of geopolymer construction products from aggregate production industry wastes, Concrete Technology and Durability Center, Amirkabir University of Technology, 2015.

6. Madani H, et al, Guideline of design, construction and maintenance of roller compacted Concrete Pavements, Road, Housing and Urban Development Research Center, 2015.
7. Madani H, et al, Preparation of the quality instructions and check lists for approval of self compaction concretes in civil engineering projects, Housing and Urban Development Research Center, 2016.
8. Madani H, et al, The guidelines and check lists for approval of ready-mixed concrete and its constituents (chemical admixtures) in different environmental conditions for use in civil engineering projects, Housing and Urban Development Research Center, 2017.
9. Madani H, Sivandi A, Keynia F, Rehabilitation of concrete substation buildings in southern part of Kerman province, Electrical distribution Company of Kerman, 2018.
10. Madani H, Ramezaniapour AA, Ramezaniapour AM, Investigation and study on the building materials regulations in building codes of several countries, Road, Housing & Urban Development Research Center, 2019.

### ***Patents***

11. Madani H, Parhizkar T, Raisghasemi A, Ghobadi S, Bagheri A, A method for stable distribution of pyrogenic nanosilicas in aqueous medium without using of stabilizers for use in concrete industry, 79891- 2013, Iranian Declaration number: 89/A 014438,139150140003-1013.
12. Madani H, Ahmadi A, Shahbazinia M, Ramezaniapour AA, Delrobaei M, Production of geopolymer green bricks using lime from wastes of aggregate production plants, 84837- 2014, Iranian Declaration number: 89/A 010854,139150140003-6349.
13. Madani H, Shahbazinia M, Alizadeh R, Ductile lightweight concrete panels without utilizing steel mesh or strengthening layer and the production method, 91142- 2016, Iranian Declaration number: 92/A 001068,139550140003008595.
14. Madani H, Ramezaniapour AA, The software: Service life design of of sea sustainable reinforced concrete, 91305- 2017, Iranian Declaration number: 92/A 001193,139550940003024138.

### ***The software:***

15. The designer of the software of the Service Life Design of Sea-Sustainable Reinforced Concrete for durability designing of concrete structures in marine environments such as the great bridge between the Ghesm island and Bandarabbas harbor

***Supervised theses***

16. Nikkhah, A, The optimized mix design of roller concrete pavements, Under supervision of Dr. Madani H, and Dr. Salajeghe J, Graduate University of Technology, Kerman, Iran, 2014.
17. Zargarian, M, The characteristics of mortars with nanosilica and rice husk ash, Under consultation of Dr. Madani H, Amirkabir University of Technology, Tehran, Iran, 2014.
18. Rostami, J, The mixture design and mechanical and durability properties of high performance concrete, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2015.
19. Norouzifar, MN, An investigation on the mechanical properties and durability of binary and ternary cement concretes, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2015.
20. Manafi I, Optimization of the topology of structures via level-set methods and optimization techniques in multi limit-state problems, Under consultation of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2015.
21. Zekri S, The seismic evaluation of light steel frame structures by performance based methods, Under consultation of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2015.
22. Pourjahanshahi, A, Investigation on the mechanical and durability properties of ultra high performance concrete, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2016.
23. Emadi, M, The influence of various parameters of mix design on the characteristics of roller compacted concrete pavement, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2016.
24. Khaghani A, The influence of photocatalytic compounds on the properties of cementitious materials, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2016.
25. Valadi, M, The effects of gradation curve and aggregate type on the light-weight structural concrete, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2016.
26. Kooshafar, M, The investigation on the influence of nanosilicas with different morphologies on cement based materials, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2016.
27. Chahrazi, H, The effects of polymer materials on the cementitious mixes, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2016.
28. Saidikia, A, The characteristics of polymer modified cement mortars with calcium aluminate cements, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2017.
29. Khodadadi , A, The Seismic Rehabilitation of steel moment frames using reinforced concrete shear

- walls base on the performance level, Under supervision of Dr. Madani H and Dr. Sivandipour A, Graduate University of Technology, Kerman, Iran, 2017.
30. Golshani, H, the investigation on the seismic performance of hybrid concrete-steel structures under consecutive earthquakes, Under supervision of Dr. Madani H and Dr. Sivandipour A, Graduate University of Technology, Kerman, Iran, 2018.
31. Motamed, S, The investigation on the influence of simultaneous use of fibers and polymer materials on the properties of cement composites, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2019.
32. Drikvand, Z, Effects of flow pattern over circular-crested weir on cavitation index using computational fluid mechanics, Under supervision of Dr. Madani H, and Dr. Najafzadeh, Graduate University of Technology, Kerman, Iran, 2019.
33. Rabii, A, The influence of different admixtures on the characteristics of self-leveling mortars, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2020.
34. Hosein Bor, J, The characteristics of geopolymer mixes with local waste materials, Under supervision of Dr. Madani H, Graduate University of Technology, Kerman, Iran, 2020.
- several other theses ...

### ***Journal papers***

35. H. Madani, A. Bagheri, T. Parhizkar. (2012), The pozzolanic reactivity of monodispersed nanosilica- hydrosols and their influence on the hydration characteristics of Portland cement, *Cement and concrete research*, 42, 1563-1570.
36. A. Bagheri, T. Parhizkar, H. Madani, A.M. Raisghasemi.(2013), The influence of different preparation methods on aggregation status of pyrogenic nanosilicas utilized in cement mixtures, *Materials and Structures*. 46, 135-143.
37. A.A. Khalifehloo, S. Sabouri, H. Madani.(2009), "The Effect of Frame Dimensions on the Strength Reduction Factor of Intermediate Steel Moment Resisting Frames", *Structure and Steel Journal of Science and Technology*, 7, 117-127.
38. A. Bagheri, T. Parhizkar, H. Madani, A.M. Raisghasemi.(2011), The rate of pozzolanic reactivity of pyrogenic nanosilicas as compared with nanosilica sols, *Concrete Research*, 5(1), 37-44.
39. H. Madani, A. Bagheri, T. Parhizkar, A.M. Raisghasemi.(2012), "The influence of specific surface area of nanosilica sols on their rate of lime consumption and cement hydration degree", *Journal of Construction Engineering and Building Science*, 19, 17-24.

40. H. Madani, A. Bagheri, T. Parhizkar.( 2013), The influence of pyrogenic nanosilicas with different surface areas on the hydration characteristics of Portland cement, *Asian Journal of Civil Engineering*, 14, 783-796.
41. H. Madani, A. Bagheri, T. Parhizkar. (2014), The electrical resistivity and chloride resistance of concretes containing the nanosilica hydrosols, *Cement and concrete composites*, 53, 18-24.
42. H. Madani, A. Bagheri, T. Parhizkar, A.M. Raisghasemi.(2015), "Particle size distribution of pyrogenic nanosilicas and nanosilica sols, used in cement composites", *Amirkabir Journal of Science and Technology*, 2, 1-14.
43. S. Hesami, A. Modarres, M. Soltaninejad, H. Madani.(2016), Mechanical properties of roller compacted concrete pavement containing coal waste and limestone powder as partial replacements of cement, *Construction and Building Materials* 111, 625–636.
44. Madani, H., Ramezaniapour, A. A., Shahbazinia, M., Bokaeian, V., Ahari, S. (2016). The Influence of Ultrafine Filler Materials on Mechanical and Durability Characteristics of Concrete. *Civil Engineering Infrastructures Journal*, 49(2), 251-262.
45. Kooshafar M, Madani H.(2016), The Investigation of Nano Silica Gel and Silica Fume on the Properties of Cement Based Materials, *Journal of Concrete structure and materials*, Volume 1, Issue 1, 2016, 87-101.
46. H. Madani, A. Pourkhorshidi, T. Parhizkar, J. Sobhani (2017), The mechanical and durability characteristics of Roller Compacted Concrete Pavement (RCCP), *Sharif Journal of Civil engineering*, 33.2(3.1), 39-45, DOI: 10.24200/J30.2017.20075.
47. Emadi M, Madani H.(2017), Modeling compressive strength of Roller Compacted Concrete Pavement using artificial neural network, ANFIS and support vector machine, *Transportation Infrastructure Engineering*, 3(3), 55-79.
48. Madani H, Nikkhah A, Salajegheh J.(2017), The influence of the dry density on the mechanical and durability properties of roller compacted concrete pavement using the response surface method, *Amirkabir Journal of Civil Engineering*, 49(3), 165-168, DOI: 10.22060/CEEJ.2016.688.
49. Madani H, Kooshafar M. (2017), Influential mechanisms and potential applications of nanosilicas in cement composites, *Civil Engineering Infrastructures Journal*, 50(2), 375-393.
50. Khaghani A, Madani H, Mansouri H.(2017), Influence of Zinc Oxide nanoparticles on the microstructural properties of cement mortars and the performance on the removal of a type of algae, *Concrete Research*, 10(3), 56-70.
51. Madani H, Norouzifar N, Rostami J, Karimi Maleh H.(2017), An investigation on the effect of

- aggregates packing density on the properties of high-performance concrete mixtures, *Amirkabir Journal of Civil Engineering*, 1(2), 205-214, DOI: 10.22060/CEEJ.2017.12730.5263.
52. Madani H, Khaghani A, Pourjahanshahi A.(2018), Mechanical properties, photocatalytic and reactions of zinc oxide nanoparticles in the cement environment, *Amirkabir Journal of Civil Engineering* 50(2), 257-268, DOI: 10.22060/CEEJ.2017.12333.5194.
53. Modarres, A., Hesami, S., Soltaninejad, M., & Madani, H. (2018). Application of coal waste in sustainable roller compacted concrete pavement-environmental and technical assessment. *International Journal of Pavement Engineering*, 19(8), 748-761, <https://doi.org/10.1080/10298436.2016.1205747>.
54. Madani H, Parhizkar T, Pourkhorshidi A, Sobhani J. (2018), The mechanical and durability characteristics of Roller Compacted Concrete Pavement (RCCP), *Sharif Journal of Civil Engineering*, 32.2, 3.1, 39-45.
55. Khaghani A, Madani H, Shakeri Sh.(2018), Investigation on the anti-bacterial property of cement based materials incorporating nano-ZnO on the *Pseudomonas aeruginosa* and *Bacillus cereus* bacteria, *Journal of Water and Wastewater*, 29-4, 88-100, DOI: 2331.74045.2017.wwj/22093.1.
56. Madani H, Norouzifar N.(2018), The properties of concrete containing ternary cement of high volume tuff and silica fume, *Sharif Journal of Civil Engineering*, 34.2-2.1, 87-98, DOI: 10.24200/J30.2018.1346.
57. Pourjahanshahi A, Madani H.(2018), An Investigation on the Pozzolanic Reactivity of Different Materials and Their Effects on the Properties of Ultra-high Performance Concrete (UHPC), *Amirkabir Journal of Civil Engineering*, 50(4), 707-724, DOI: 10.22060/CEEJ.2017.12909.5291.
58. Madani H, Khaghani A.(2018), Evaluating the performance of ZnO nanoparticles on the cement based materials engineering characteristics, *Sharif Journal of Civil Engineering*, 34.2(4.2), 65-74, DOI: 10.24200/J30.2019.1445.
59. Saidikia A, Madani H.(2018), Influence of polymer materials on the durability of Calcium Aluminate Cement based mixtures, *Journal of Concrete structure and materials*, 3(2), 24-40, DOI: 10.30478/JCSM.2019.82168
60. Saidikia A, Madani H.(2019), The influence of ethylene vinyl acetate and vinyl acetate polymers on mechanical properties, shrinkage and durability of Calcium Aluminate Cement based mixtures, *Tarbiat Modarres Civil and Environmental Engineering Journal*, 18(4), 101-114.
61. Chahrazi H, Madani H, Saidikia A.(2019), Investigating the mechanical properties and durability of cement base modified with Ethylene vinyl acetate and Styrene acrylic, *Journal of Concrete*

- Research, 11(4), 2019, 49-61.
62. Motamed S, Madani H. (2019), Investigating the effect of glass fiber on the mechanical properties of cement composites, *Journal of Concrete structure and materials*, 4(1), 54-67, 10.30478/JCSM.2019.159896.1104.
63. Sivandi A, Madani H, Khodadadi.(2019) , Performance Based Seismic Rehabilitation of Steel Structures with Different Types of Shear Walls, *Journal of Rehabilitation in Civil Engineering*, 7(4), 178-191.DOI:10.22075/JRCE.2019.15507.1289
64. Motamed S, Madani H.(2020), Effect of combined use of glass and polymer fibers on mechanical properties, shrinkage and durability properties of cement composites, *Sharif Journal of Civil Engineering*, DOI:10.24200/J30.2019.5 3132.2535.
65. Chahrazi H, Madani H, Saidikia A.(2020), Investigation and comparison of the properties of cement-based mixtures containing different types of polymers, *Sharif Journal of Civil Engineering*, DOI:10.24200/J30.2019.53636.2565.
66. Madani H, Anjomshoa MH, Afzali M, Haghighi H. (2020), Effects of cubic molds' quality on the compressive strength and distorsion of concrete specimens, *Journal of Concrete structure and materials*, DOI:10.30478/JCSM.2019.207542.1136.
67. Motamed S, Madani H.(2020), Hybrid performance of steel and glass fibers on mechanical properties, shrinkage and durability of cement composites, *Tarbiat Modarress Journal of Civil Engineering*, Accepted paper (MJCE-28851).
68. Madani, H, Rostami, J., The influence of phase change material (PCM) and nanosilica aerogel aggregates on the characteristics of cement composites. Submitted to the journal of *Construction and Building Engineering* (Under review).
69. Madani H, Kooshafar M, Emadi M.(2020), Compressive Strength Prediction of Nano-Silica Incorporated Cement Mixtures Using Adaptive Neuro-Fuzzy Inference System and Artificial Neural Network Models, *ASCE Journal of Practice Priodical on structural design and Construction*, 10.1061/(ASCE)SC.1943-5576.0000499.
70. Kooshafar M, Madani H. (2020), An investigation on the influence of nano silica morphology on the characteristics of cement composites, *Journal of Building Engineering*, 30, <https://doi.org/10.1016/j.jobe.2020.101293>.
71. Madani H, Ramezani pour AA, Shahbazinia M, Ahmadi E (2020), Geopolymer bricks made from less active waste materials, *Construction and Building Materials*, 247, <https://doi.org/10.1016/j.conbuildmat.2020.118441>
72. Vaezi MS, Sedaghatdoost A, Norouzifar MN, Madani H., Petrographic investigation into the



influence of chopped basalt fibers on the microstructure of Portland cement mortars at elevated temperatures. ASCE Journal of Materials in Civil Engineering (Under review).

***Conference papers***

73. H. Madani, A. Bagheri, T. Parhizkar, (2012, March) "A comparison between the pozzolanic reactivity of nanosilica sols and pyrogenic nanosilicas", in: M.Schmidt, E. Fehling, C. Glotzbach, S.Fröhlich, S.Piotrowski (Eds.), Proceeding of HiPerMat 2012 3<sup>rd</sup> international symposium on UHPC and nanotechnology for high performance construction materials, Kassel university press Gmbh, Germany, Kassel, pp.125-131.
74. H. Madani, A. Bagheri, T. Parhizkar, A.M. Raisghasemi, A.A. Ramezaniapour, (2013, August) "The aggregation status of nanosilicas and silica fume, used in cementitious mixtures", in 3<sup>rd</sup> international conference on sustainable construction materials and technologies, Japan, Kyoto, e130.
75. H. Madani, A. Bagheri, T. Parhizkar, A. Raisghasemi, (2013, April) "Aggregation status of nanosilicas and its effect on their pozzolanic reactivity in cement paste environment", 4<sup>th</sup> international conference on concrete and development, Tehran.
76. Sabouri S, Khalifehloo AA, Madani, (2008, May), The redundancy factor and the necessity to its use as a part of response surface factor in the earthquake code of Iran, 1<sup>st</sup> international conference on seismic retrofitting, Tabriz, Iran (in Persian)
77. Sabouri S, Khalifehloo AA, Madani, (2009, November), The concept of redundancy factor a part of response surface factor and the method for use in international seismic codes, 4<sup>th</sup> Seismic Resistant Design of Buildings (Standard 2800), Tehran, Iran (in Persian)
78. Bagheri A, Parhizkar T, Madani H, Raisghasemi AM, (2012, October), The pozzolanic reactivity of nanosilica hydrosols with various surface areas and their influence on the cement composites, 4<sup>th</sup> national conference of concrete, Tehran, Iran (in Persian)
79. Madani H, Bagheri A, Parhizkar T, (2012, October), The key note: The influence of nanosilicas on the properties of cement based materials, 4<sup>th</sup> national conference of concrete, Tehran.
80. Madani H, Nikkha A, (2014, October), The mix design of roller compacted concrete pavement using statistical method, 6<sup>th</sup> national conference of concrete, Tehran, Iran (in Persian)
81. Madani H, Parhizkar T, (2014, May), The key note: The performance requirements of roller

- compacted concrete pavements, 1<sup>st</sup> national conference on roller compacted concrete pavements, Tehran, Iran (in Persian)
82. Madani H, Gholami N, (2015, February), Direct Absorption of Runoff by Perforated Concrete, 6<sup>th</sup> national conference of concrete, 3<sup>rd</sup> conference on the rainwater catchment systems, Birjand, Iran (in Persian)
83. Madani, H., Rostami, J., Norouzifar, M. N. (2015, October). Investigating the effect of different grading curve on the mechanical and durability properties of high performance concrete. 7<sup>th</sup> National Conference of Concrete. Tehran, Iran (in Persian)
84. Rostami, J., Madani, H., Norouzifar, M. N. (2015, October). Investigating the effect of Combined usage of micro-silica and natural pozzolan on the mechanical and durability properties of high performance concrete, 7<sup>th</sup> National Conference of Concrete, Tehran, Iran (in Persian)
85. Madani H, Bagheri A, Parhizkar T., (2015, May), the potential of nanosilicas for use in concrete industry, The 1<sup>st</sup> national seminar on the application of nanotechnology in the concrete industry, Garmsar, Iran (in Persian)
86. Manfi I, Madani H, Norouzifar MN, (2015, May), Investigation on the effect of Self- Healing in Concrete by Bacteria. 2<sup>nd</sup> national congress on construction engineering and projects assessments, Semnan, Iran (in Persian)
87. Zargarian M, Madani H., (2015, May), The influences of nanosilica and silica fume on the mechanical and durability properties of mortars against chloride diffusion, The 1<sup>st</sup> national seminar on the application of nanotechnology in the concrete industry, Garmsar, Iran (in Persian)
88. Norouzifar MN, Madani H, Rostami J, (2015, May), Investigating the mechanical and durability of binary and ternary cement Concretes. 2<sup>nd</sup> national congress on construction engineering and projects assessments, Semnan, Iran (in Persian)
89. Jamshid Rostami, Dr. Hesam Madani, Mohammad Naser Norouzifar, (2015, May), A study on the packing density and mechanical properties of high performance concrete (HPC). 2<sup>nd</sup> national congress on construction engineering and projects assessments, Semnan, Iran (in Persian)
90. Madani H, Khaghani A, (2015, May), The role of titanium nano oxide in reducing the environmental pollutants and increasing the photocatalytic and mechanical properties of cement mortars, The 1<sup>st</sup> national seminar on the application of nanotechnology in the concrete industry, Gramsar, Iran (in Persian)
91. Madani H, Khaghani A, (2015, May), Internal curing in concrete using light weight aggregates and its influence on shrinkage, The 1<sup>st</sup> national conference of the innovative concrete technologies, Rasht, Iran (in Persian)

92. Madani H, Nikkhah A, (2015, April), The optimization of the mix design of roller compacted concrete pavements via multi objective non dominated sorting genetic algorithm , 1<sup>st</sup> national conference on concrete pavements, Tehran, Iran (in Persian)
93. Nikkhah A, Madani H, (2015, April), The influence of water/cement ratio and cement content on the the characteristics of dry density and compressive strength of roller compacted concrete pavements using response surface method, 1<sup>st</sup> national conference on concrete pavements, Tehran, Iran (in Persian)
94. Madani H, pourkhorshidi A, Sobhani J, Parhizkar T, (2015, April), Salt scaling of roller compacted concrete pavements, 1<sup>st</sup> national conference on concrete pavements, Tehran, Iran (in Persian)
95. Madani H, pourkhorshidi A, Sobhani J, Parhizkar T, (2015, April), A review on the performance characteristics and durability of roller compacted concrete pavements, 1<sup>st</sup> national conference on concrete pavements, Tehran, Iran (in Persian)
96. Norouzifar MN, Madani H., (2016, April), Investigation of the mechanical and durability properties of green concretes containing natural pozzolan and silica fume as ternary cement. The 1<sup>st</sup> national seminar of environmentally-friendly concretes, Garmsar, Iran (in Persian)
97. Emadi M, Madani H, (2016, October), Evaluation of the artificial intelligence modeling approaches in prediction of the compressive strength of roller compacted concrete pavements, 8<sup>th</sup> national conference of concrete, Tehran, Iran (in Persian)
98. Emadi M, Madani H, (2016, November), The mix design of roller compacted concrete pavements via theoretical methods, 3<sup>rd</sup> National conference on civil engineering and sustainable development, Abadan, Iran (in Persian)
99. Madani H, Khaghani A, Kooshafar M, (2016, May), The performance of cementitious coatings containing titanium nano oxide in the interior and exterior surfaces of buildings, National Seminar on environmentally friendly concrete, Garmsar, Iran (in Persian)
100. Pourjahanshahi A, Madani H, Emadi M, (2016, December), Effect of hybrid fibers on the mechanical properties of Ultra-High performance Fiber-Reinforced Concrete, The 4<sup>th</sup> international congress on civil engineering, architecture and urban development, Tehran, Iran (in Persian)
101. Madani H, Emadi M, Pourjahanshahi A, (2016, December), The influence of changing some mix design parameters on the compressive strength of Roller-Compacted Concrete Pavement, The 4<sup>th</sup> international congress on civil engineering, architecture and urban development, Tehran, Iran (in Persian)

102. Madani H, Pourjahanshahi A, (2016, October), An investigation into the pozzolanic properties of different materials on the characteristics of Ultra-High Performance Concrete, The 5th national and the 1st international conference on modern materials and structures in civil engineering, Tehran, Iran (in Persian)
103. Madani H, Khaghani A, Pourjahanshahi A, (2016, October), Mechanical Properties and Photocatalytic Reactions of Zinc Oxide Nanoparticles in the Cement Environment, The 5th national and the 1st international conference on modern materials and structures in civil engineering, Tehran, Iran (in Persian)
104. Madani H, Pourjahanshahi A, (2016, November), An investigation into the characteristics of different types of fibers on the mechanical properties, durability and microstructures of UltraHigh Performance Concrete, The 3<sup>rd</sup> National Conference on Civil Engineering and Sustainable Development of Iran, Tehran, Iran (in Persian)
105. Madani H, Khatibi J, Pourjahanshahi A, Asadi I, (2017, October), An investigation into the effect of steel and Barchip fibers on the mechanical properties and shrinkage of Roller-Compacted Concrete Pavement, 9th national conference of concrete, Tehran, Iran (in Persian)
106. Saeedikia A, Madani H, (2017, September), Evaluation of compressive strength of calcium aluminate cement based mixtures modified with acrylic styrene and butadiene rubber styrene. 3<sup>rd</sup> international conference on architectural, civil and urban development at the beginning of the third millennium, Tehran, Iran (in Persian)
107. Saeedikia A, Madani H, Rais mohammadian M, (2017, October), Influence of using styrene butadiene rubber polymer on the properties Calcium Aluminate Cement based. 9<sup>th</sup> national conference of concrete, Tehran, Iran (in Persian)
108. Chehrazi H, Saeedikia A, Madani H, Rais mohammadian M, (2017, October), Evaluation of the durability properties of modified cement based materials with acrylic styrene and styrene butadiene rubber. 9<sup>th</sup> national conference of concrete, Tehran, Iran (in Persian)
109. Chehrazi H, Madani H, Saeedikia, A, (2017, August), Evaluation of the effectiveness of ethylene vinyl acetate polymer on the strength of polymer-modified mortars, Civil engineering, architecture and urban development of contemporary Iran, Tehran, Iran (in Persian)
110. Chehrazi H , Madani H, Saeedikia A. (2017, August), Investigation on the performance of styrene Acrylic polymer on mechanical properties of cement based materials. Civil engineering, architecture and urban development of contemporary Iran, Tehran, Iran (in Persian)
111. Saeedikia A, Madani H, (2017, March) Review and access the application of pigments (chromium oxide) on the mechanical properties and durability of colored mortars. International

- congress on world Contemporary Civil Engineering, Architectural and Urban Development, Dubai (in Persian)
112. Saeedikia A, Madani H. (2017, July) Investigation on the properties of the modified calcium aluminate cement based mortars with vinyl acetate and ethylene vinyl acetate. The 3rd international conference on civil, architectural and urban engineering, Shiraz. 2017, Iran (in Persian)
113. Saeedikia A, Madani H. (2018, May), Investigating the influence of polymer materials on the durability of calcium aluminate cement based mixtures. 1<sup>st</sup> National conference on concrete durability, Tehran, Iran (in Persian)
114. Golshani H, Sivandi A, Madani H, (2018, November), Evaluation of the nonlinear performance of concrete, steel and hybrid structures by the modal and adaptive pushover analyses, 4<sup>th</sup> international conference on structural engineering, Tehran, Iran (in Persian)
115. Golshani H, Sivandi A, Madani H, (2018, November), An investigation on the nonlinear behavior of steel structures retrofitted by concrete shear walls using adaptive pushover analysis, The 1<sup>st</sup> national conference on recent advances in engineering and modern sciences, Tehran, Iran.
116. Sivandi A, Madani H, Khodadadi A, (2018, November), An investigation on the nonlinear behavior of steel structures retrofitted by concrete shear walls using adaptive pushover analysis, 4<sup>th</sup> international conference on structural engineering, Tehran, Iran (in Persian)
117. Golshani H, Sivandi A, Madani H, (2018, December), Study of the nonlinear behavior of hybrid structures in sequential earthquakes utilizing the nonlinear dynamic time history analysis, 2<sup>nd</sup> national conference on applied research in Civil Engineering and construction management, Tehran, Iran (in Persian)
118. Khodadadi A, Sivandi A, Madani H, (2018, December), The non-linear performance of the concrete shear walls retrofitted steel structures using pushover analysis, 2<sup>nd</sup> national conference on applied research in Civil Engineering and construction management, Tehran, Iran.
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