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### International Researcher IDs

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Publons / Web Of Science ResearcherID: JPK-8822-2023

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### Education Information

Postgraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, Turkey 2020 - Continues  
Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey 2015 - 2019

### Research Areas

Building materials, Material science and engineering, Chemistry

### Academic Titles / Tasks

Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2020 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Rheological Properties and Thixotropic Behavior of Cementitious Systems Containing Different Fiber Types**  
Kaya Y., BİRİKİK Ö., Bayqra S. H., MARDANI A.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.49, no.4, pp.5203-5223, 2024 (SCI-Expanded)
- II. **Influence of recycled concrete, marble, glass, and limestone powder, and utilization ratios on the compressive strength and alkali-silica reaction performance of mortar mixtures**  
Aytekin B., Biricik Ö., Mardani A.  
International Journal of Environmental Science and Technology, vol.21, no.6, pp.5585-5602, 2024 (SCI-Expanded)
- III. **Multi-effect of fineness and replacement ratio of binders on thixotropic and some fresh state properties of cementitious systems, a comparative study**  
Şahin H. G., Biricik Altun Ö., Mardani A.  
Advanced Powder Technology, vol.35, no.2, 2024 (SCI-Expanded)
- IV. **Research on modeling the thixotropic properties of cementitious systems using regression methods in machine learning**  
Şahin H. G., Biricik Ö., Eser M., Mardani A., Bilgin M.

CONSTRUCTION AND BUILDING MATERIALS, vol.411, pp.1-14, 2023 (SCI-Expanded)

- V. **Effect of fibre type and utilisation rate on dimensional stability and frost resistance of pavement mortar mixture**  
Kaya Y., Biricik Ö., Bayqra S. H., Mardani A.  
INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING, vol.24, no.1, 2023 (SCI-Expanded)
- VI. **Effect of waste binder material usage rate on thixotropic behaviour of cementitious systems**  
Biricik Ö., Aytekin B., Mardani A.  
Construction and Building Materials, vol.403, 2023 (SCI-Expanded)
- VII. **Mechanical and Durability Performance of Macro Polypropylene Fibrous Concrete**  
Latifi M. R., BİRİCİK Ö., MARDANI A.  
IRANIAN POLYMER JOURNAL, vol.32, no.9, pp.1149-1164, 2023 (SCI-Expanded)
- VIII. **Assessment of mechanical properties of fiber reinforced cementitious system exposed to high temperature**  
Biricik Ö., Bayqra S. H., Kaya Y., Mardani A.  
STRUCTURAL CONCRETE, vol.24, no.4, pp.4733-4750, 2023 (SCI-Expanded)
- IX. **Effect of metakaolin utilization ratio and loop method-pre-shearing process variation on rheological properties of cementitious systems having different C3A content**  
BİRİCİK Ö., Sahin H. G., MARDANI A.  
CEMENT & CONCRETE COMPOSITES, vol.136, 2023 (SCI-Expanded)
- X. **Parameters affecting thixotropic behavior of self compacting concrete and 3D printable concrete; a state-of-the-art review**  
Biricik Ö., Mardani Aghabaglou A.  
CONSTRUCTION AND BUILDING MATERIALS, vol.339, 2022 (SCI-Expanded)
- XI. **Effect of the addition of polypropylene fiber on concrete properties**  
Latifi M. R., BİRİCİK Ö., MARDANI AGHABAGLOU A.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.36, no.4, pp.345-369, 2022 (SCI-Expanded)
- XII. **Polycarboxylate-based water reducing admixture - clay compatibility; literature review**  
Sahin H. G., Biricik Ö., Mardani Aghabaglou A.  
JOURNAL OF POLYMER RESEARCH, vol.29, no.1, 2022 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effect of air-entraining admixture usage rate on dynamic yield stress and viscosity in Portland cement systems containing urea**  
Biricik Ö., Çaparoğlu N., Mardani A.  
European Journal of Engineering and Natural Sciences (EJENS), vol.8, no.1, pp.57-64, 2023 (Peer-Reviewed Journal)
- II. **The Effect of Clay Type, Fineness and Methylene Blue Value on Mini-Slump Performance of Cementitious Systems**  
Şahin F., BİRİCİK Ö., MARDANI A.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.23, pp.539-547, 2023 (Peer-Reviewed Journal)
- III. **Effect of Boron Waste on Mechanical and Durability Properties of Concrete**  
Biricik Ö., Özen S., Mardani A.  
European Journal of Engineering and Natural Sciences (EJENS), vol.8, no.1, pp.49-56, 2023 (Peer-Reviewed Journal)
- IV. **Effect of Urea Usage Rate on Thixotropic Behavior of Cementitious Systems**  
Çaparoğlu N., Biricik Ö., Mardani A.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.23, pp.173-178, 2023 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **The Effect of Clay Type, Fineness and Methylene Blue Value on MiniSlump Performance of Cementitious Systems**  
Şahin F., Biricik Ö., Mardani A.  
ICRETS 2023: International Conference on Research in Engineering, Technology and Science, Budapest, Hungary, 6 - 09 July 2023, vol.23, pp.539-547
- II. **Effect of Urea Usage Rate on Thixotropic Behavior of Cementitious Systems**  
Çaparoglu N., BİRİCİK Ö., MARDANI A.  
ICRETS 2023: International Conference on Research in Engineering, Technology and Science, Budapest, Hungary, 6 - 09 July 2023, vol.23, pp.173-178
- III. **Effect of air-entraining admixture usage rate on dynamic yield stress and viscosity in Portland cement systems containing urea**  
BİRİCİK Ö., Çaparoglu N., MARDANI A.  
9th International Conference On Engineering And Natural Sciences (ICENS 2023), Bosnia And Herzegovina, 17 - 21 May 2023, pp.28-36
- IV. **Effect of Boron Waste on Mechanical And Durability Properties Of Concrete**  
BİRİCİK Ö., ÖZEN S., MARDANI A.  
9th International Conference On Engineering And Natural Sciences (ICENS 2023), Bosnia And Herzegovina, 17 - 21 May 2023, pp.17-21
- V. **Utilization of Waste Powder In Cementitious Systems**  
Biricik Ö., Aytakin B., Mardani A.  
8 th International Black Sea Coastline Countries Scientific Research Conference, Sofija, Bulgaria, 29 August 2022, pp.545-565
- VI. **Effect of Limestone Powder Fineness and Substitution Ratio on The Rheological Properties of Cementitious Systems**  
Aytakin B., Biricik Ö., Mardani A.  
VI-International European Conference on Interdisipliner Scientific Research, Bucuresti, Romania, 26 August 2022, pp.222-235
- VII. **Nanomaterials Utilization Effect on Modulus of Elasticity of Cementitious Systems**  
Biricik Ö., Mardani A.  
VI-International European Conference on Interdisipliner Scientific Research, Bucuresti, Romania, 26 August 2022, pp.236-243
- VIII. **Farklı Tür Atık Toz Malzeme Kullanımının Çimentolu Sistemlerin Priz Süresi ve Akış Özelliklerine Etkisi**  
Biricik Ö., Aytakin B., Mardani A.  
The 14th International Scientific Research Congress, Ankara, Turkey, 20 - 21 August 2022, pp.284-295
- IX. **Investigation of high range water-reducing admixture requirement in cementitious systems containing fly ash with different utilization ratio and fineness**  
Şahin H. G., BİRİCİK Ö., MARDANI A.  
International Conference on Technology, Engineering and Science, IConTES 2022, Antalya, Turkey, 16 - 19 November 2022, vol.21, pp.388-395
- X. **Effect of Fiber Type And Utilization Rate on Permeability Properties And Freeze-Thaw Resistance of Mortar Mixtures**  
BİRİCİK Ö., Kaya Y., Bayqara S. H., MARDANI AGHABAGLOU A.  
EJONS 12th International Conference on Mathematics, Engineering, Natural & Medical Sciences, Paris, France, 09 July 2021
- XI. **Thixotropic properties of Cementitious Systems: Importance and Measurement Methods**  
BİRİCİK Ö., Şahin H. G., MARDANI AGHABAGLOU A.  
3rd International April 23 Scientific Studies Congress, Ankara, Turkey, 23 April 2021
- XII. **Bacteria-Based Self-Healing in Cementitious Systems; Literature Review**

MARDANI AGHABAGLOU A., AYTEKİN B., BİRİCİK Ö., Şahin H. G.

5th International Congress of Academic Research (ICAR 2021), Elazığ, Turkey, 19 April 2021

**XIII. A Research on the Parameters Affecting the Action Performance of Air-entraining Admixtures; Literature Review**

Şahin H. G., BİRİCİK Ö., MARDANI AGHABAGLOU A.

International Congress on Sciences and Engineering for Sustainability (INARS 2021), İstanbul, Turkey, 16 April 2021

**XIV. Study on the Acceptance Criteria and the Effect of Materials Used in the Composition of 3D Concrete Mixtures**

Şahin H. G., Biricik Ö., Mardani Aghabaglou A.

5th International Conference on Materials Engineering and Nano Sciences (ICMENS 2021), Osaka, Japan, 23 - 25 February 2021, pp.1

**XV. Effect Of Fiber Type And Content On Some Hardened State Properties Of Cementitious Systems Exposed To High Temperature**

Kaya Y., Bayqara S. H., BİRİCİK Ö., MARDANI AGHABAGLOU A.

Middle East International Conference On Contemporary Scientific Studies-V, Ankara, Turkey, 27 March 2021, pp.230

**XVI. Effect of Fiber Type and Content on Fresh and Some Hardened State Properties of Cementitious Systems**

BİRİCİK Ö., Bayqara S. H., Kaya Y., MARDANI AGHABAGLOU A.

34th World Conference on Applied Science, Engineering & Technology (WCASET 2021), Dubai, United Arab Emirates, 23 March 2021

**XVII. The Enhancement Methods of Polycarboxylate-Based Water Reducing Admixture Performance in Systems Containing High Amount of Clay Literature Review**

Şahin H. G., Biricik Ö., Mardani Aghabaglou A.

6th International Conference on Engineering and Natural Science (ICENS), Belgrade, Serbia, 21 October - 25 December 2020, pp.14

## Supported Projects

Mardani Aghabaglou A., Yavaş A., Yalçinkaya Ç., Biricik Ö., Project Supported by Higher Education Institutions, İnşaat Uygulamaları için 3D Beton Yazıcı Kullanılarak Üretilen Beton Karışımlarının Optimum Özelliklerinin Belirlenmesi, 2021 - 2024

MARDANI A., AYTEKİN B., BİRİCİK Ö., Project Supported by Higher Education Institutions, Farklı Tür ve Oranda Atık Malzeme İçeriğine Sahip Çimentolu Sistemlerin Tikotropik Özelliklerinin Araştırılması, 2021 - 2022

## Metrics

Publication: 33

Citation (WoS): 91

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H-Index (Scopus): 4