

## Res. Asst. PhD HASAN ÇAKIR

### Personal Information

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### Education Information

Doctorate, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Turkey 2020 - Continues

Doctorate, Akdeniz University, -, Matematik Anabilim Dalı, Turkey 2019 - 2020

Postgraduate, Akdeniz University, -, Matematik Anabilim Dalı, Turkey 2014 - 2017

Undergraduate, Akdeniz University, Faculty Of Science, Matematik, Turkey 2010 - 2014

### Dissertations

Postgraduate, Hiperbolik sayılar ve hiperbolik sayı matrislerinin cebirsel ve geometrik uygulamaları, Akdeniz University, Fen Bilimleri Enstitüsü, Matematik, 2017

### Research Areas

Mathematics, Differential Geometry, Geometry, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik, 2020 - Continues

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

- I. **Dual octonions and rigid body kinematics**  
Çakır H., Bektaş Ö., Yılmaz R.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.0, no.0, pp.1-18, 2024 (SCI-Expanded)
- II. **Hyper dual number matrices**  
Bektaş Ö., Çakır H.  
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, vol.17, no.03, pp.187-200, 2023 (SCI-Expanded)
- III. **Hybrid number matrices**  
ÇAKIR H., ÖZDEMİR M.  
Filomat, vol.37, no.27, pp.9215-9227, 2023 (SCI-Expanded)

## Articles Published in Other Journals

I. **EXPLICIT FORMULAS FOR EXPONENTIAL OF 2 Chi 2 SPLIT-COMPLEX MATRICES**

ÇAKIR H., ÖZDEMİR M.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS,  
vol.71, no.2, pp.518-532, 2022 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

I. **Dual octonions representation of rigid body motions**

Çakır H., Bektaş Ö., Yılmaz R.

20th International Geometry Symposium. In Honor of Prof. Dr. H. Hilmi Hacısalihoğlu, Van, Turkey, 18 - 20 July  
2024, pp.82

II. **Leonardo Cartan numbers**

Çakır H., Öztürk İ.

20th International Geometry Symposium. In Honor of Prof. Dr. H. Hilmi Hacısalihoğlu, Van, Turkey, 18 - 20 July  
2024, pp.107

## Metrics

Publication: 9