

Prof. SIDDİKA ÖZKALDI KARAKUŞ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: HHM-6000-2022

ScopusID: 24504487500

Yoksis Researcher ID: 58599

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2007 - 2010

Postgraduate, Kirikkale University, Institute Of Science, Matematik (Yıl) (Tezli), Turkey 2004 - 2006

Undergraduate, Gazi University, Fen-Edebiyat Fakültesi, Matematik Pr., Turkey 1998 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Tensör çarpım yüzeyleri ve Lie grupları, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2010

Postgraduate, Düzleme ve uzayda kinematik geometri, Kirikkale University, Fen Bilimleri Enstitüsü, Matematik (Yıl) (Tezli), 2006

Research Areas

Mathematics, Geometry

Academic and Administrative Experience

Vice Rector, Bilecik Seyh Edebali University, 2022 - Continues

Dean, Bilecik Seyh Edebali University, 2019 - 2022

Bilecik Seyh Edebali University, 2017 - 2020

University Executive Board Member, Bilecik Seyh Edebali University, 2019 - 2019

Bilecik Seyh Edebali University, 2014 - 2019

Bilecik Seyh Edebali University, 2012 - 2014

Courses

Diferensiyel Geometri I, Undergraduate, 2013 - 2014
ANALİTİK GEOMETRİ II, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
Öklid Geometrisi, Undergraduate, 2013 - 2014
Matematik ve Hayat, Undergraduate, 2013 - 2014
Hareket Geometrisine Giriş , Undergraduate, 2013 - 2014, 2012 - 2013
ANALİTİK GEOMETRİ I, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
MATEMATİK I, Associate Degree, 2013 - 2014, 2012 - 2013, 2011 - 2012
Diferensiyel Geometri II, Undergraduate, 2013 - 2014
Kinematik, Undergraduate, 2012 - 2013
MATEMATİK II, Associate Degree, 2012 - 2013, 2011 - 2012
Yarı Riemann Geometri, Postgraduate, 2012 - 2013
İstatistik, Undergraduate, 2011 - 2012
Alt Mainifoldlar Teorisi II, Postgraduate, 2011 - 2012
Topoloji I, Undergraduate, 2011 - 2012
Riemann Geometri, Postgraduate, 2011 - 2012
Soyut Matematik II, Undergraduate, 2011 - 2012
Soyut Matematik I, Undergraduate, 2011 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On electromagnetic curves and geometric phase associated with frontals in de-Sitter 2-space**
DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S.
Indian Journal of Physics, vol.98, no.3, pp.1021-1030, 2024 (SCI-Expanded)
- II. **On the classification of framed rectifying curves in Euclidean space**
Yazıcı B., Karakuş S., Tosun M.
Mathematical Methods in the Applied Sciences, vol.45, no.18, pp.12089-12098, 2022 (SCI-Expanded)
- III. **Screw Theory in Lorentzian Space**
Karakuş S.
Advances in Applied Clifford Algebras, vol.29, no.1, 2018 (SCI-Expanded)
- IV. **Generalized Bicomplex Numbers and Lie Groups**
Karakuş S., Aksoyak F. K.
Advances in Applied Clifford Algebras, vol.25, no.4, pp.943-963, 2015 (SCI-Expanded)
- V. **On the determination of a developable spherical orthotomic ruled surface**
YILDIZ Ö. G., Karakuş S., Hacisalihoğlu H. H.
Bulletin of Mathematical Sciences, vol.5, no.1, pp.137-146, 2015 (SCI-Expanded)
- VI. **Rotations and Screw Motion with Timelike Vector in 3-Dimensional Lorentzian Space**
Keçilioğlu O., Özkaldi S., Gündoğan H.
Advances in Applied Clifford Algebras, vol.22, no.4, pp.1081-1091, 2012 (SCI-Expanded)
- VII. **Bicomplex number and tensor product surfaces in $\mathbb{R}4$**
Karakuş S., YAYLI Y.
Ukrainian Mathematical Journal, vol.64, no.3, pp.344-355, 2012 (SCI-Expanded)
- VIII. **Dual Split Quaternions and Screw Motion in 3-Dimensional Lorentzian Space**
ÖZKALDI KARAKUŞ S., Gündoğan H.
Advances in Applied Clifford Algebras, vol.21, no.1, pp.193-202, 2011 (SCI-Expanded)
- IX. **On Mannheim partner curves in dual Lorentzian space**
Özkaldi S., İlarslan K., YAYLI Y.
Hacettepe Journal of Mathematics and Statistics, vol.40, no.5, pp.649-661, 2011 (SCI-Expanded)
- X. **Tensor product surfaces in $\mathbb{R}4$ and lie groups**
ÖZKALDI KARAKUŞ S., Yayuli Y.
Bulletin of the Malaysian Mathematical Sciences Society, vol.33, no.1, pp.69-77, 2010 (SCI-Expanded)

- XI. **Cayley formula, Euler parameters and rotations in 3-dimensional Lorentzian space**
 ÖZKALDI KARAKUŞ S., Gündoğan H.
 Advances in Applied Clifford Algebras, vol.20, no.2, pp.367-377, 2010 (SCI-Expanded)
- XII. **Clifford product and lorentzian plane displacements in 3-dimensional Lorentzian space**
 Gündoğan H., ÖZKALDI KARAKUŞ S.
 Advances in Applied Clifford Algebras, vol.19, no.1, pp.43-50, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **On adjoint curves of framed curves and some ruled surfaces**
 DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.
 HONAM MATHEMATICAL JOURNAL, vol.45, no.3, pp.380-396, 2023 (ESCI)
- II. **A new perspective on bicomplex numbers with Leonardo number components**
 Turan M., KARAKUŞ S. Ö., NURKAN S. K.
 Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.72, no.2, pp.340-351, 2023 (Peer-Reviewed Journal)
- III. **Hyper-Dual Leonardo Numbers**
 ÖZKALDI KARAKUŞ S., Turan M., NURKAN S.
 Konuralp Journal of Mathematics, vol.10, no.2, pp.269-275, 2022 (Peer-Reviewed Journal)
- IV. **ON FRAMED TZITZEICA CURVES IN EUCLIDEAN SPACE**
 DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.
 FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.37, no.2, 2022 (Peer-Reviewed Journal)
- V. **Framed Curves and Their Applications Based on a New Differential Equation**
 Yazıcı B., Karakus, S., Tosun M.
 International Electronic Journal of Geometry, vol.15, pp.41-56, 2022 (Scopus)
- VI. **Characterizations of Framed Curves in Four-Dimensional Euclidean Space**
 DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.
 Universal Journal of Mathematics and Applications, vol.4, no.4, pp.125-131, 2021 (Peer-Reviewed Journal)
- VII. **HOMOTHETIC MOTIONS VIA GENERALIZED BICOMPLEX NUMBERS**
 KAHRAMAN AKSOYAK F., ÖZKALDI KARAKUŞ S.
 FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.36, no.2, pp.275-291, 2021 (ESCI)
- VIII. **Framed normal curves in Euclidean space**
 DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.
 TBILISI MATHEMATICAL JOURNAL, pp.27-37, 2020 (ESCI)
- IX. **A study on spacelike rectifying curves in Minkowski 3-space**
 DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S.
 TBILISI MATHEMATICAL JOURNAL, pp.11-26, 2020 (ESCI)
- X. **A NEW REPRESENTATION OF CONSTANT ANGLE SURFACES IN $H^2 \times R$ WITH SPLIT QUATERNIONS**
 KARAKUŞ S. Ö.
 Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.68, no.1, pp.633-642, 2019 (Peer-Reviewed Journal)
- XI. **Quaternionic Approach On Constant Angle Surfaces In $S^2 \times R$**
 ÖZKALDI KARAKUŞ S.
 APPLIED MATHEMATICS E - NOTES, pp.497-506, 2019 (Scopus)
- XII. **Conics and Quadrics in Lorentzian Space**
 ÇİÇEK A., KARAKUŞ S. Ö., GÜNDÖĞAN H.
 Mathematical Sciences and Applications E-Notes, vol.6, no.1, pp.58-63, 2018 (Peer-Reviewed Journal)
- XIII. **Certain Constant Angle Surfaces Constructed on Curves in Minkowski 3-Space**
 ÖZKALDI KARAKUŞ S.
 INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.11, no.1, pp.37-47, 2018 (Peer-Reviewed Journal)

- XIV. **On the Quaternionic Normal Curves in the Semi Euclidean Space E4 2**
YILDIZ Ö. G., ÖZKALDI KARAKUŞ S.
International Journal of Mathematical Combinatorics, vol.3, pp.68-76, 2016 (Peer-Reviewed Journal)
- XV. **A New Approach about the Determination of a Developable Spherical Orthotomic Ruled Surface in R3 1**
YILDIZ Ö. G., ÖZKALDI KARAKUŞ S., HACISALİHOĞLU H. H.
INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.9, no.1, pp.62-69, 2016 (Peer-Reviewed Journal)
- XVI. **A New Approach about the Determination of a Developable Spherical Orthotomic Ruled Surface in R13**
YILDIZ Ö. G., ÖZKALDI KARAKUŞ S., HACISALİHOĞLU H. H.
INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.9, no.1, pp.62-69, 2016 (Peer-Reviewed Journal)
- XVII. **ON CURVE COUPLES WITH JOINT LIGHTLIKE FRENET PLANES IN MINKOWSKI 3 SPACE**
UÇUM A., İLARSLAN K., ÖZKALDI KARAKUŞ S.
ACTA UNIVERSITATIS APULENSIS, vol.41, pp.111-129, 2015 (Peer-Reviewed Journal)
- XVIII. **On curve couples with joint timelike Frenet planes in Minkowski 3- Space**
UÇUM A., İLARSLAN K., ÖZKALDI KARAKUŞ S.
Acta Universitatis Apulensis, vol.44, pp.87-108, 2015 (Peer-Reviewed Journal)
- XIX. **On the Determination of a Developable Spherical Orthotomic Timelike Ruled Surface**
YILDIZ Ö. G., ÖZKALDI KARAKUŞ S., Hasan Hilmi H.
KONURALP TIP DERGİSİ, vol.3, no.1, pp.75-83, 2015 (Peer-Reviewed Journal)
- XX. **CURVE COUPLES AND SPACELIKE FRENET PLANES IN MINKOWSKI 3 SPACE**
UÇUM A., İLARSLAN K., ÖZKALDI KARAKUŞ S.
HONAM MATHEMATICAL JOURNAL, vol.36, no.3, pp.475-492, 2014 (Peer-Reviewed Journal)
- XXI. **A NEW APPROACH FOR CHARACTERIZATION OF CURVE COUPLES IN EUCLIDEAN 3 SPACE**
ÖZKALDI KARAKUŞ S., İLARSLAN K., YAYLI Y.
HONAM MATHEMATICAL JOURNAL, vol.36, no.1, pp.113-129, 2014 (Peer-Reviewed Journal)
- XXII. **A Note on Inextensible Flows of Curves in En**
YILDIZ Ö. G., ÖZKALDI KARAKUŞ S., TOSUN M.
INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.6, no.2, pp.118-124, 2013 (Peer-Reviewed Journal)
- XXIII. **LC helix on hypersurfaces in minkowski space E1n+1**
Karakuş S., Şenol A., Ghadami R., YAYLI Y.
International Journal of Pure and Applied Mathematics, vol.86, no.3, pp.471-485, 2013 (Scopus)
- XXIV. **Constant Angle Surfaces And Curves In E3**
ÖZKALDI KARAKUŞ S., YAYLI Y.
International Electronic Journal of Geometry, vol.4, pp.70-78, 2011 (Peer-Reviewed Journal)
- XXV. **LC Slant Helix On Hypersurfaces In Minkowski Space En 1**
ÖZKALDI KARAKUŞ S., GÖK İ., YAYLI Y., hacisalihoglu h. h.
TWMS J. Pure Appl. Math., vol.1, pp.137-145, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Smarandache Curves of Fronts in the Sphere**
DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.
11th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Turkey, 29 August 2022
- II. **Parallel p-equidistant ruled surface of special singular curves**
DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.
19th INTERNATIONAL GEOMETRY SYMPOSIUM, Turkey, 27 June 2022
- III. **Characterizations of Framed Curves in Four-Dimensional Euclidean Space**
DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.

10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2021), Turkey, 25 August 2021

IV. On Framed Tzitzieica Curves in Euclidean Space

DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.

18th International Geometry Symposium in Honour of Prof.Dr. Sadık KELEŞ, Turkey, 12 July 2021

V. A Study on Rectifying Non-Null Curves in Minkowski 3-space

DOĞAN B., ÖZKALDI KARAKUŞ S.

16th International Geometry Symposium, 4 - 07 July 2018

VI. Some Characterizations of Quaternionic Normal Curves

YILDIZ Ö. G., DOĞAN B., ÖZKALDI KARAKUŞ S.

15th International Geometry Symposium, 3 - 06 July 2017

VII. On the Determination of a Timelike Developable Spherical Orthotomic Ruled Surface

YILDIZ Ö. G., ÖZKALDI KARAKUŞ S., Hasan Hilmi H.

3rd International Eurasian Conference on Mathematical Sciences and Applications, Viyana, Austria, 25 - 28 August 2014

VIII. A New Approach about the Determination of a Developable Spherical Orthotomic Spacelike Ruled Surface

YILDIZ Ö. G., ÖZKALDI KARAKUŞ S., Hacisalihoğlu H. H.

3rd International Eurasian Conference on Mathematical Sciences and Applications, Viyana, Austria, 25 - 28 August 2014

IX. On the Determination of a Developable Spherical Orthotomic Ruled Surface

YILDIZ Ö. G., ÖZKALDI KARAKUŞ S., Hasan Hilmi H.

XII. Geometri Sempozyumu, Bilecik, Turkey, 23 - 26 June 2014

X. On the Quaternionic Normal Curves in the Euclidean Space

YILDIZ Ö. G., ÖZKALDI KARAKUŞ S.

2nd International Eurasian Conference on Mathematical Sciences and Applications, Saraybosna, Bosnia And Herzegovina, 26 - 29 August 2013, vol.1

XI. On the Quaternionic Normal Curves in E3

ÖZKALDI KARAKUŞ S., YILDIZ Ö. G.

XI. Geometri Sempozyumu, Ordu, Turkey, 1 - 05 July 2013

XII. A Note on Inextensible Flows of Curves in En

YILDIZ Ö. G., TOSUN M., ÖZKALDI KARAKUŞ S.

1st International Eurasian Conference on Mathematical Sciences and Applications, Piriştine, Montenegro, 3 - 07 September 2012, vol.1

XIII. On the Quaternionic Normal Curves in the Semi-Euclidean Space E4_2

YILDIZ Ö. G., ÖZKALDI KARAKUŞ S.

X. Geometri Sempozyumu, Balıkesir, Turkey, 13 - 16 June 2012, vol.1