

Asst. Prof. BAHAR DOĞAN YAZICI

Personal Information

Office Phone: [+90 228 214 2137](tel:+902282142137)

Email: bahar.dogan@bilecik.edu.tr

Web: <https://avesis.bilecik.edu.tr/bahar.dogan>

International Researcher IDs

ScholarID: MEwVDPEAAAAJ

ORCID: 0000-0001-5690-4840

Publons / Web Of Science ResearcherID: GLF-1777-2022

ScopusID: 57917306400

Yoksis Researcher ID: 277960

Education Information

Doctorate, Sakarya University, Institute Of Science, Matematik, Turkey 2018 - 2023

Postgraduate, Bilecik Seyh Edebali University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli) (Anadolu Üniv. Ortak), Turkey 2015 - 2018

Undergraduate, Sakarya University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey 2011 - 2015

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Özel singüler eğrilerin geometrisi üzerine, Sakarya University, 2022

Postgraduate, Kuarterniyonik normal eğriler, Bilecik Seyh Edebali University, Fen Bilimleri Enstitüsü, 2018

Research Areas

Differential Geometry, Geometry

Academic Titles / Tasks

Assistant Professor, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2023 - Continues

Research Assistant, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2018 - 2023

Academic and Administrative Experience

Deputy Head of Department, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2024 - 2027

Courses

Araştırma Projesi (BDY), Undergraduate, 2023 - 2024
Dönüşümler ve Geometrilere, Undergraduate, 2023 - 2024
Matematik Öğretim Yöntemleri, Undergraduate, 2023 - 2024
Sayıların Geometrisi, Postgraduate, 2024 - 2025
Matematik I, Undergraduate, 2024 - 2025
Öğretmenlik Uygulaması (Pedagojik Formasyon) (BDY), Undergraduate, 2023 - 2024
Undergraduate, 2023 - 2024
Undergraduate, 2023 - 2024
Öğretmenlik Uygulaması (Pedagojik Formasyon) (D), Undergraduate, 2023 - 2024
Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On special curves in Lie groups with Myller configuration**
İşbilir Z., DOĞAN YAZICI B., Tosun M.
Mathematical Methods in the Applied Sciences, vol.47, no.14, pp.11693-11708, 2024 (SCI-Expanded)
- II. **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)
- III. **Quasi-type frame and quasi-type osculating curves in Myller configuration**
DOĞAN YAZICI B., Tosun M.
Filomat, vol.38, no.8, pp.2813-2820, 2024 (SCI-Expanded)
- IV. **Generalized Rectifying Ruled Surfaces of Special Singular Curves**
İşbilir Z., Yazıcı B., Tosun M.
Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, vol.31, no.3, pp.177-206, 2023 (SCI-Expanded)
- V. **Generalized osculating-type ruled surfaces of singular curves**
DOĞAN YAZICI B., İşbilir Z., Tosun M.
Mathematical Methods in the Applied Sciences, vol.46, no.8, pp.8532-8545, 2023 (SCI-Expanded)
- VI. **The spinor representations of framed Bertrand curves**
İşbilir Z., Yazıcı B., Tosun M.
Filomat, vol.37, no.9, pp.2831-2843, 2023 (SCI-Expanded)
- VII. **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)
- VIII. **Framed curves in three-dimensional Lie groups and a Berry phase model**
DOĞAN YAZICI B., OKUYUCU O. Z., Tosun M.
Journal of Geometry and Physics, vol.182, 2022 (SCI-Expanded)
- IX. **Electromagnetic curves and Berry phase construction of a polarized light wave along an optical fiber which is a singular curve on S^2**
Yazıcı B., OKUYUCU O. Z., Tosun M.
Optik, vol.264, 2022 (SCI-Expanded)
- X. **Spinor representation of framed Mannheim curves**
Yazıcı B., İşbilir Z., Tosun M.
Turkish Journal of Mathematics, vol.46, no.7, pp.2690-2700, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **ON SPECIAL SINGULAR CURVE COUPLES OF FRAMED CURVES IN 3D LIE GROUPS**

Doğan Yazıcı B., Okuyucu O. Z., Tosun M.

Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.72, no.3, pp.710-720, 2023 (ESCI)

- II. **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)
- III. **SPINOR REPRESENTATIONS OF FRAMED CURVES IN THE THREE-DIMENSIONAL LIE GROUPS**
İŞBİLİR Z., DOĞAN YAZICI B., TOSUN M.
JOURNAL OF DYNAMICAL SYSTEMS AND GEOMETRIC THEORIES, vol.21, no.1, pp.61-83, 2023 (ESCI)
- IV. **Generalized Bertrand and Mannheim Curves in 3D Lie Groups**
Okuyucu O. Z., Doğan Yazıcı B.
Fundamental journal of mathematics and applications (Online), vol.5, no.3, pp.201-209, 2022 (Peer-Reviewed Journal)
- V. **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)
- VI. **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)
- VII. **Multicomponent hybrid numbers: On algebraic properties and matrix representations of hybrid-hyperbolic numbers**
DOĞAN YAZICI B., TOSUN M.
NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.28, no.1, pp.26-40, 2022 (Peer-Reviewed Journal)
- VIII. **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)
- IX. **Framed normal curves in Euclidean space**
DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S., TOSUN M.
TBILISI MATHEMATICAL JOURNAL, pp.27-37, 2020 (ESCI)
- X. **A study on spacelike rectifying curves in Minkowski 3-space**
DOĞAN YAZICI B., ÖZKALDI KARAKUŞ S.
TBILISI MATHEMATICAL JOURNAL, pp.11-26, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **On the Algebraic Structures of Hybrid Numbers with Matrix Theory**
DOĞAN YAZICI B.
7th International HYBRID Conference on Mathematical Advances and Applications, Turkey, 8 - 11 May 2024
- II. **Characterization of parallel Z-equidistant ruled surfaces with Myller configuration**
DOĞAN YAZICI B., TOSUN M.
20th International Geometry Symposium, Van, Turkey, 18 - 20 July 2024
- III. **SPINOR REPRESENTATIONS OF A CURVE WITH FRENET-TYPE FRAME IN MYLLER CONFIGURATION FOR 3-DIMENSIONAL LIE GROUPS**
İŞBİLİR Z., DOĞAN YAZICI B., TOSUN M.
VII World Congress of Turkic World Mathematicians-TWMS Congress-2023, Turkestan, Kazakhstan, 20 - 23 September 2023
- IV. **ON GENERALIZED QUASI-TYPE RECTIFYING CURVES**
DOĞAN YAZICI B., TOSUN M.
VII World Congress of Turkic World Mathematicians-TWMS Congress-2023, Turkestan, Kazakhstan, 20 - 23

September 2023

- V. **Generalized Normal Ruled Surfaces of Frenet-Type Framed Curves**
DOĞAN YAZICI B., İŞBİLİR Z., TOSUN M.
Session of Mathematical Communications, Romania, 10 December 2022
- VI. **Generalized Rectifying Ruled Surfaces of Special Singular Curves**
İŞBİLİR Z., DOĞAN YAZICI B., TOSUN M.
11th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, İstanbul, Turkey, 29 August - 01 September 2022, pp.189-190
- VII. **Bertrand and Mannheim Curves of Framed Curves in Three-Dimensional Lie Groups**
DOĞAN YAZICI B., OKUYUCU O. Z., TOSUN M.
11th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Turkey, 29 August 2022
- VIII. **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
- IX. **Smooth curves with singular points in three-dimensional Lie groups**
DOĞAN YAZICI B., OKUYUCU O. Z., TOSUN M.
19th INTERNATIONAL GEOMETRY SYMPOSIUM, Turkey, 27 June 2022
- X. **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
- XI. **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
- XII. **On Framed Tzitzeica 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
- XIII. **Hybrid-Hyperbolic Numbers**
DOĞAN YAZICI B., TOSUN M.
12th International Conference on Clifford Algebras and Their Applications in Mathematical Physics (ICCA12), China, 3 - 07 August 2020
- XIV. **A Study on Rectifying Non-Null Curves in Minkowski 3-space**
DOĞAN B., ÖZKALDI KARAKUŞ S.
16th International Geometry Symposium, 4 - 07 July 2018
- XV. **Some Characterizations of Quaternionic Normal Curves**
YILDIZ Ö. G., DOĞAN B., ÖZKALDI KARAKUŞ S.
15th International Geometry Symposium, 3 - 06 July 2017

Activities in Scientific Journals

Mathematical Sciences and Applications E-Notes, Technical Redactor, 2023 - Continues

Mathematical Sciences and Applications E-Notes, Article Editor, 2023 - Continues

Fundamental journal of mathematics and applications (Online), Article Editor, 2021 - 2022

Scientific Refereeing

Universal Journal of Mathematics and Applications, Other Indexed Journal, March 2024

OPTICAL AND QUANTUM ELECTRONICS, Journal Indexed in SCI-E, March 2024

JOURNAL OF SCIENCE AND ARTS, Journal Indexed in ESCI, December 2023

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, August 2022

Konuralp Journal of Mathematics, Other Indexed Journal, April 2022

Fundamental journal of mathematics and applications (Online), Other Indexed Journal, July 2020

Journal of mathematical sciences and modelling (Online), Other Indexed Journal, January 2019

Awards

Doğan Yazıcı B., Matematik Bölüm Birinciliği, Sakarya Üniversitesi, January 2015