

Assoc. Prof. MEHMET FIRAT ARIKAN

Personal Information

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International Researcher IDs

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ScopusID: 54948063900

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Education Information

Doctorate, Michigan State University, United States Of America 2003 - 2008

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Matematik (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Topological Invariants of Contact Structures and Planar Open Books, Michigan State University, 2008

Postgraduate, Construction of Surface Bundles with Nonzero Signature, Middle East Technical University, Graduate School of Natural and Applied Sciences, Matematik (YI) (Tezli), 2002

Research Areas

Mathematics, Manifolds and Cell Complexes, Natural Sciences

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2019 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2014 - 2019

Advancing Research

ARIKAN M. F., Construction of exotic manifolds using corks and plugs, Postgraduate, KİMLİK(Student), 2022
ARIKAN M. F., Tight Contact Structures on Hyperbolic Three- Manifolds, Doctorate, M.Secgin(Student), 2018
ARIKAN M. F., Tight Contact Structures on Small Seifert Fibered Spaces, Postgraduate, K.Yilmaz(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Compatible relative open books on relative contact pairs via generalized square bridge diagrams**
ARIKAN M. F., TAŞPINAR İ. Ö.
Acta Mathematica Hungarica, vol.172, no.1, pp.80-118, 2024 (SCI-Expanded)
- II. **Contact Symplectic Fibrations and Bundle Contact Structures**
ARIKAN M. F.
Mediterranean Journal of Mathematics, vol.20, no.6, 2023 (SCI-Expanded)
- III. **On Legendrian embeddings into open book decompositions**
Akbulut S., Arikan M. F.
ARKIV FOR MATEMATIK, no.2, pp.227-245, 2019 (SCI-Expanded)
- IV. **Tight contact structures on hyperbolic three-manifolds**
ARIKAN M. F., Secgin M.
TOPOLOGY AND ITS APPLICATIONS, vol.231, pp.345-352, 2017 (SCI-Expanded)
- V. **Legendrian realization in convex Lefschetz fibrations and convex stabilizations**
Akbulut S., ARIKAN M. F.
FORUM MATHEMATICUM, vol.27, no.3, pp.1829-1847, 2015 (SCI-Expanded)
- VI. **EXISTENCE OF COMPATIBLE CONTACT STRUCTURES ON $G(2)$ -MANIFOLDS**
Arikan M. F., Cho H., Salur S.
ASIAN JOURNAL OF MATHEMATICS, vol.17, no.2, pp.321-333, 2013 (SCI-Expanded)
- VII. **A NOTE ON LEFSCHETZ FIBRATIONS ON COMPACT STEIN 4-MANIFOLDS**
Akbulut S., Arikan M. F.
COMMUNICATIONS IN CONTEMPORARY MATHEMATICS, vol.14, no.5, 2012 (SCI-Expanded)
- VIII. **A normally closed electrostatic parylene microvalve for micro total analysis systems**
Yildirim E., ARIKAN M. F., KÜLAH H.
SENSORS AND ACTUATORS A-PHYSICAL, vol.181, pp.81-86, 2012 (SCI-Expanded)
- IX. **ON THE CLASSIFICATION OF CERTAIN PLANAR CONTACT STRUCTURES**
Arikan M. F., Durusoy S.
ACTA MATHEMATICA HUNGARICA, vol.134, no.4, pp.529-542, 2012 (SCI-Expanded)
- X. **Evaluation of selected kaolins as raw materials for the Turkish cement and concrete industry**
Aras A., Albayrak M., Arikan M., Sobolev K.
CLAY MINERALS, vol.42, no.2, pp.233-244, 2007 (SCI-Expanded)
- XI. **Sequential masking classification of multi-temporal Landsat7 ETM+ images for field-based crop mapping in Karacabey, Turkey**
Turker M., Arikan M.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.26, no.17, pp.3813-3830, 2005 (SCI-Expanded)
- XII. **Economic assessment of the seismic retrofitting of low-cost apartment buildings**
Arikan M., Sucuoclu H., Macit G.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.9, no.4, pp.577-584, 2005 (SCI-Expanded)
- XIII. **Closure to "Optimal capital structure model for BOT power projects in Turkey" by Sandalkhan Bakatjan, Metin Arikan, and Robert L. K. Tiong**
Bakatjan S., Arikan M., Tiong R.
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT-ASCE, vol.131, no.3, pp.386-387, 2005 (SCI-Expanded)
- XIV. **The optimization of a gypsum-based composite material**
Arikan M., Sobolev K.

CEMENT AND CONCRETE RESEARCH, vol.32, no.11, pp.1725-1728, 2002 (SCI-Expanded)

XV. High volume mineral additive for eco-cement

Sobolev K., Arikan M.

AMERICAN CERAMIC SOCIETY BULLETIN, vol.81, no.1, pp.39-43, 2002 (SCI-Expanded)

Articles Published in Other Journals

I. Stabilizations via Lefschetz fibrations and exact open books

ARIKAN M. F., AKBULUT S.

Journal Gökova Geometry Topology, 2017 (Peer-Reviewed Journal)

II. On the Support Genus of a Contact Structure

ARIKAN M. F.

Journal Gökova Geometry Topology, vol.1, pp.92-115, 2007 (Peer-Reviewed Journal)

III. Planar Contact Structures with Binding Number Three

ARIKAN M. F.

Proceedings of Gokova Geometry / Topology Conference, vol.14, pp.90-124, 2007 (Peer-Reviewed Journal)

Metrics

Publication: 18

Citation (WoS): 225

Citation (Scopus): 218

H-Index (WoS): 6

H-Index (Scopus): 6

Non Academic Experience

Max Planck Matematik Enstitüsü, Bon

Rochester Üniversitesi, Matematik Bölümü

Michigan Eyalet Üniversitesi, Matematik Bölümü