

## Prof. MUSTAFA ÖZDEMİR

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-5586-2016

ScopusID: 55736067400

Yoksis Researcher ID: [https://akademik.yok.gov.tr/AkademikArama/AkademisyenGorevOgrenimBilgileri?sira=\\_D2bDdARDMCOgjHVGzFVZw&authorId=9E46A38F4D06185D](https://akademik.yok.gov.tr/AkademikArama/AkademisyenGorevOgrenimBilgileri?sira=_D2bDdARDMCOgjHVGzFVZw&authorId=9E46A38F4D06185D)

## Education Information

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- I. Doctorate, Akdeniz University, Institute of Science, Matematik Anabilim Dalı, Turkey 2002 - 2007
- II. Postgraduate, Akdeniz University, Institute of Science, Matematik Anabilim Dalı, Turkey 1999 - 2001
- III. Undergraduate, Dokuz Eylul University, Buca Eğitim Fakültesi, Matematik Öğretmenliği, Turkey 1992 - 1996

## Dissertations

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- I. Doctorate, Timelike Kuaterniyonların Bazı Geometrik Uygulamaları, Akdeniz University, Institute of Science, Matematik, 2007
- II. Postgraduate, Lorentz Uzayında Non-degenerate Altmanifoldlar ile Bunların Non-degenerate Hiperyüzeylerinin Eğrilikleri Arasındaki Bağlıntılar, Akdeniz University, Institute of Science, Matematik, 2001

## Research Areas

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Mathematics, Associative Rings and Algebras, Differential Geometry, Geometry, Global Analysis, Analysis on Manifolds, Natural Sciences

## Academic Titles / Tasks

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- I. Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2017 - Continues
- II. Associate Professor, Akdeniz University, Faculty of Science, Matematik, 2011 - 2016
- III. Assistant Professor, Akdeniz University, Faculty of Science, Matematik, 2009 - 2011
- IV. Research Assistant, Akdeniz University, Institute of Science, Matematik, 2000 - 2007
- V. Research Assistant, Akdeniz University, Institute of Science, 1999 - 2001

## Academic and Administrative Experience

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- I. Vice Dean, Akdeniz University, Faculty Of Science, 2013 - 2022

II. Akdeniz University, Faculty of Science, Matematik, 2009 - 2013

## Courses

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### I. Doctorate

- I. Öklidiyen ve Öklidiyen Olmayan Geometrilere, Doctorate, 2012 - 2013
- II. Hareket Geometrisi ve Kuarterniyonlar Teorisi, Doctorate, 2011 - 2012

### II. Postgraduate

- I. Lorentz Geometri, Postgraduate, 2013 - 2014
- II. Projektif Geometri 2, Postgraduate, 2013 - 2014
- III. Projektif Geometri 1, Postgraduate, 2013 - 2014
- IV. Riemann Geometri, Postgraduate, 2011 - 2012

### III. Undergraduate

- I. Analitik Geometri 2, Undergraduate, 2013 - 2014
- II. Analitik Geometri 1, Undergraduate, 2013 - 2014
- III. Matematik 1, Undergraduate, 2013 - 2014
- IV. İzdüşümsel Geometri, Undergraduate, 2013 - 2014
- V. Belitsel Geometri, Undergraduate, 2013 - 2014
- VI. Lineer Cebir ve Vektör Analiz, Undergraduate, 2012 - 2013
- VII. Matematik 2, Undergraduate, 2012 - 2013
- VIII. Diferansiyel Geometri 2, Undergraduate, 2012 - 2013
- IX. Diferansiyel Geometri 1, Undergraduate, 2011 - 2012
- X. Biyologlar İçin Matematik, Undergraduate, 2011 - 2012

## Supervised Theses

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- I. Özdemir M., Genelleştirilmiş oskülatör ve rektifiyan eğri çiftleri, Doctorate, O.ÇELİK(Student), 2022
- II. Özdemir M., Eliptik iç çarpım uzaylarında geometri, Postgraduate, M.EROL(Student), 2022
- III. Özdemir M.,  $2 \times 2$  türünden matrislerin karekökünün hesaplama yöntemleri, Postgraduate, İ.AKGÜL(Student), 2020
- IV. Özdemir M., Householder dönüşümü ve bazı geometrik uygulamaları, Postgraduate, D.SOYLU(Student), 2019
- V. Özdemir M., Reel, karmaşık ve hiperbolik düzlemde afin dönüşümler ve uygulamaları, Postgraduate, İ.ÖZTÜRK(Student), 2019
- VI. Özdemir M., Hiperbolik sayılar ve hiperbolik sayı matrislerinin cebirsel ve geometrik uygulamaları, Postgraduate, H.ÇAKIR(Student), 2017
- VII. ÖZDEMİR M., Sonlu boyutlu Minkowski Uzaylarında Fokal Eğriler ve Fokal Yüzeyler, Doctorate, H.Şimşek(Student), 2016
- VIII. ÖZDEMİR M., Split Kuarterniyon Matrisleri, Doctorate, M.Erdoğan(Student), 2015
- IX. ÖZDEMİR M., Lorentz uzayında dönme matrislerinin üretilmesi, Postgraduate, O.Palancı(Student), 2011

## Jury Memberships

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- I. Competition, Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2014
- II. Doctorate, Abide Tuna Doktora Tez Savunma Jürisi, SDÜ, May, 2013
- III. Post Graduate, Ayşe Yılmaz Y.Lisans Tez Savunma Jürisi, Akdeniz Üniversitesi, May, 2010
- IV. Post Graduate, Tuna Bayraktar Y.Lisans Tez Savunma Jürisi, Akdeniz Üniversitesi, May, 2010
- V. Competition, TÜBİTAK Orta Öğretim Proje Yarışması, TÜBİTAK, April, 2010

- I. **Generalization of dual numbers and dual Euclidean 3-space**  
SOYLU Ş. D., ÇOLAKOĞLU H. B., ÖZDEMİR M.  
Turkish Journal of Mathematics, vol.49, no.1, pp.29-48, 2025 (SCI-Expanded)
- II. **Generalized Galilean Rotations**  
ÇOLAKOĞLU H. B., Öztürk İ., Çelik O., ÖZDEMİR M.  
Symmetry, vol.16, no.11, 2024 (SCI-Expanded)
- III. **Elliptical rotations with hybrid numbers**  
Öztürk İ., ÖZDEMİR M.  
Indian Journal of Pure and Applied Mathematics, vol.55, no.1, pp.23-39, 2024 (SCI-Expanded)
- IV. **On Elliptical Motions on a General Ellipsoid**  
ÇOLAKOĞLU H. B., ÖZDEMİR M.  
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.20, no.3, 2023 (SCI-Expanded)
- V. **Non-parabolic conical rotations**  
Çolakoglu H. B., Öztürk İ., Özdemir M.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.420, 2023 (SCI-Expanded)
- VI. **On geometric interpretations of split quaternions**  
Öztürk İ., ÖZDEMİR M.  
Mathematical Methods in the Applied Sciences, vol.46, no.1, pp.408-422, 2023 (SCI-Expanded)
- VII. **Hybrid number matrices**  
ÇAKIR H., ÖZDEMİR M.  
Filomat, vol.37, no.27, pp.9215-9227, 2023 (SCI-Expanded)
- VIII. **Generalized elliptical quaternions with some applications**  
ÇOLAKOĞLU H. B., ÖZDEMİR M.  
TURKISH JOURNAL OF MATHEMATICS, vol.47, no.1, pp.351-371, 2023 (SCI-Expanded)
- IX. **Similarity of hybrid numbers**  
Ozturk I., ÖZDEMİR M.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.43, no.15, pp.8867-8881, 2020 (SCI-Expanded)
- X. **Real matrix representations of complex split quaternions with applications**  
Erdogdu M., ÖZDEMİR M.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.43, no.12, pp.7227-7238, 2020 (SCI-Expanded)
- XI. **Finding n-th Roots of a 2 x 2 Real Matrix Using De Moivre's Formula**  
ÖZDEMİR M.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.29, no.1, 2019 (SCI-Expanded)
- XII. **Introduction to Hybrid Numbers**  
ÖZDEMİR M.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.28, no.1, 2018 (SCI-Expanded)
- XIII. **On exponential of split quaternionic matrices**  
Erdogdu M., ÖZDEMİR M.  
APPLIED MATHEMATICS AND COMPUTATION, vol.315, pp.468-476, 2017 (SCI-Expanded)
- XIV. **Rotations on a Lightcone in Minkowski 3-Space**  
Simsek H., ÖZDEMİR M.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.27, no.3, pp.2841-2853, 2017 (SCI-Expanded)
- XV. **On Conformal Curves in 2-Dimensional de Sitter Space**  
Şimşek H., ÖZDEMİR M.  
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.2, pp.757-770, 2016 (SCI-Expanded)
- XVI. **Generating hyperbolical rotation matrix for a given hyperboloid**  
Şimşek H., ÖZDEMİR M.  
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.496, pp.221-245, 2016 (SCI-Expanded)

- XVII. **An Alternative Approach to Elliptical Motion**  
 ÖZDEMİR M.  
 ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.26, no.1, pp.279-304, 2016 (SCI-Expanded)
- XVIII. **Backlund's Theorem for n Dimensional Lorentzian Submanifold in the Minkowski Space  $E-1(2n-1)$**   
 Şimşek H., ÖZDEMİR M.  
 RESULTS IN MATHEMATICS, vol.69, no.1-2, pp.201-223, 2016 (SCI-Expanded)
- XIX. **Matrices over Hyperbolic Split Quaternions**  
 Erdogdu M., ÖZDEMİR M.  
 FILOMAT, vol.30, no.4, pp.913-920, 2016 (SCI-Expanded)
- XX. **Split Quaternion Matrix Representation of Dual Split Quaternions and Their Matrices**  
 Erdogdu M., ÖZDEMİR M.  
 ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.25, no.4, pp.787-798, 2015 (SCI-Expanded)
- XXI. **The Sub-Parabolic Lines in the Minkowski 3-Space**  
 ÖZDEMİR M., Şimşek H.  
 RESULTS IN MATHEMATICS, vol.67, no.3-4, pp.417-430, 2015 (SCI-Expanded)
- XXII. **Cayley formula in Minkowski space-time**  
 Erdogdu M., ÖZDEMİR M.  
 INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.12, no.5, 2015 (SCI-Expanded)
- XXIII. **Two-sided linear split quaternionic equations with n unknowns**  
 Erdogdu M., ÖZDEMİR M.  
 LINEAR & MULTILINEAR ALGEBRA, vol.63, no.1, pp.97-106, 2015 (SCI-Expanded)
- XXIV. **SIMILAR AND SELF-SIMILAR CURVES IN MINKOWSKI n-SPACE**  
 ÖZDEMİR M., Şimşek H.  
 BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.52, no.6, pp.2071-2093, 2015 (SCI-Expanded)
- XXV. **Backlund transformation for spacelike curves in the Minkowski space-time**  
 ÖZDEMİR M., Erdogdu M., Şimşek H., ERGİN A. A.  
 KUWAIT JOURNAL OF SCIENCE, vol.41, no.3, pp.63-80, 2014 (SCI-Expanded)
- XXVI. **ON THE ROTATION MATRIX IN MINKOWSKI SPACE-TIME**  
 ÖZDEMİR M., Erdogdu M.  
 REPORTS ON MATHEMATICAL PHYSICS, vol.74, no.1, pp.27-38, 2014 (SCI-Expanded)
- XXVII. **Geometry of Hasimoto Surfaces in Minkowski 3-Space**  
 Erdogdu M., ÖZDEMİR M.  
 MATHEMATICAL PHYSICS ANALYSIS AND GEOMETRY, vol.17, no.1-2, pp.169-181, 2014 (SCI-Expanded)
- XXVIII. **On the Eigenvalues and Eigenvectors of a Lorentzian Rotation Matrix by Using Split Quaternions**  
 ÖZDEMİR M., Erdogdu M., Şimşek H.  
 ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.24, no.1, pp.179-192, 2014 (SCI-Expanded)
- XXIX. **On Complex Split Quaternion Matrices**  
 Erdogdu M., ÖZDEMİR M.  
 ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.23, no.3, pp.625-638, 2013 (SCI-Expanded)
- XXX. **On Eigenvalues of Split Quaternion Matrices**  
 Erdogdu M., ÖZDEMİR M.  
 ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.23, no.3, pp.615-623, 2013 (SCI-Expanded)
- XXXI. **Backlund transformation for non-lightlike curves in Minkowski 3-space**  
 ÖZDEMİR M., Coken A. C.  
 CHAOS SOLITONS & FRACTALS, vol.42, no.4, pp.2540-2545, 2009 (SCI-Expanded)
- XXXII. **The roots of a split quaternion**  
 Ozdemir M.  
 APPLIED MATHEMATICS LETTERS, vol.22, no.2, pp.258-263, 2009 (SCI-Expanded)
- XXXIII. **Rotations with unit timelike quaternions in Minkowski 3-space**  
 Ozdemir M., Ergin A. A.  
 JOURNAL OF GEOMETRY AND PHYSICS, vol.56, no.2, pp.322-336, 2006 (SCI-Expanded)

- I. **Affine transformations of hyperbolic number plane**  
Öztürk İ., ÖZDEMİR M.  
Boletín de la Sociedad Matemática Mexicana, vol.28, no.3, 2022 (ESCI)
- II. **A New Generalization of Some Curve Pairs**  
Çelik O., ÖZDEMİR M.  
International Electronic Journal of Geometry, vol.15, no.2, pp.215-225, 2022 (Scopus)
- III. **Simple, Double and Isoclinic Rotations with a Viable Algorithm**  
Erdoğan M., ÖZDEMİR M.  
Mathematical Sciences and Applications E-Notes, 2020 (Peer-Reviewed Journal)
- IV. **Some Results on p-Shape Curvatures of Non-Lightlike Space Curves**  
Simsek H., ÖZDEMİR M.  
INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.11, no.2, pp.61-70, 2018 (ESCI)
- V. **On Bäcklund Transformation Between Timelike Curves in Minkowski Space-Time**  
ÖZDEMİR M.  
Sakarya University Journal of Science, vol.22, no.2, pp.1143-1150, 2018 (Peer-Reviewed Journal)
- VI. **SHAPE CURVATURES OF THE LORENTZIAN PLANE CURVES**  
Simsek H., ÖZDEMİR M.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.66, no.2, pp.276-288, 2017 (ESCI)
- VII. **21. Ulusal Antalya Matematik Olimpiyatları Soruları ve Çözümleri**  
ALİYEV İ., ÖZDEMİR M.  
Matematik Dünyası, no.104, pp.94-101, 2016 (Peer-Reviewed Journal)
- VIII. **On focal surfaces formed by timelike normal rectilinear congruence**  
ÖZDEMİR M., Şimşek H.  
COMMUNICATIONS SERIES A1: MATHEMATICS AND STATISTICS, vol.65, no.2, pp.55-64, 2016 (Peer-Reviewed Journal)
- IX. **ON FOCAL SURFACES FORMED BY TIMELIKE NORMAL RECTILINEAR CONGRUENCE**  
Şimşek H., ÖZDEMİR M.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.65, no.2, pp.55-64, 2016 (ESCI)
- X. **De- Moivre's and Euler Formulas for Matrices of Split Quaternions**  
ÖZDEMİR M., Erdoğan M.  
CLIFFORD ANALYSIS, CLIFFORD ALGEBRAS AND THEIR APPLICATIONS, vol.4, pp.223-233, 2015 (Peer-Reviewed Journal)
- XI. **On reflections and rotations in Minkowski 3-space**  
ÖZDEMİR M., Erdoğan M.  
Journal of Geometry Symmetry in Physics, vol.39, pp.1-16, 2015 (Peer-Reviewed Journal)
- XII. **Timelike quaternion frame of a non-lightlike curve**  
ÖZDEMİR M., ERGİN A. A.  
Beiträge zur Algebra und Geometrie, vol.49, no.2, pp.325-333, 2008 (Scopus)
- XIII. **PARALLEL FRAMES OF NON-LIGHTLIKE CURVES**  
ÖZDEMİR M., ERGİN A. A.  
MISSOURI JOURNAL OF MATHEMATICAL SCIENCES, vol.20, no.2, pp.127-137, 2008 (ESCI)
- XIV. **Timelike Quaternion Frames of non-lightlike curves,**  
ÖZDEMİR M., ERGİN A. A.  
Beiträge zur Algebra und Geometrie / Contributions to Algebra and Geometry, vol.49, pp.325-333, 2008 (Scopus)
- XV. **Parallel frames of non-lightlike curves**

ÖZDEMİR M., ERGİN A. A.

Missouri Journal of Mathematical Sciences, vol.20, pp.127-137, 2008 (Scopus)

XVI. **Spacelike Darboux curves in Minkowski 3-space**

ÖZDEMİR M., ERGİN A. A.

Differential Geometry - Dynamical Systems, vol.9, pp.131-137, 2007 (Peer-Reviewed Journal)

XVII. **Some Geometric Applications of split Quaternion**

ÖZDEMİR M., ERGİN A. A.

proc. 16th Int. conf. jongjeon Math.Soc., vol.16, 2005 (Peer-Reviewed Journal)

XVIII. **On the focal curvatures of non-lightlike curves in Minkowski (m+1)-space**

ÖZDEMİR M.

F. Ü. Fen ve Mühendislik Bilimleri Dergisi, vol.16, no.3, pp.401-409, 2004 (Peer-Reviewed Journal)

XIX. **Nonlightlike darboux curves in Minkowski n-space**

ÖZDEMİR M., ERGİN A. A.

Hadronic Journal Supp., vol.19, no.3, pp.343-351, 2004 (Peer-Reviewed Journal)

## Books

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I. **Kuaterniyonlar ve Geometri**

ÖZDEMİR M.

Altın Nokta Yayınevi, İzmir, 2020

II. **MÜHENDİSLİK FAKÜLTELERİ İÇİN LİNEER CEBİR VE ÇÖZÜMLÜ PROBLEMLER**

ÖZDEMİR M.

Altın Nokta Basım, İzmir, 2016

III. **ANALİTİK GEOMETRİ**

ÖZDEMİR M.

Altın Nokta Basım, İzmir, 2015

IV. **Ulusal Antalya Matematik Olimpiyatları 1. Aşama Son 20 Yılın Soruları Ve Çözümleri**

ALİYEV İ., ÖZDEMİR M.

Altın Nokta Basım, İzmir, 2015

V. **Matematik Olimpiyatlarına Hazırlık 2 Mustafa Özdemir**

ÖZDEMİR M.

Altın Nokta, Ankara, 2013

VI. **DAHİMATİK**

ÖZDEMİR M.

Altın Nokta, Antalya, 2013

VII. **Matematik Olimpiyatlarına Hazırlık 5**

ÖZDEMİR M.

Altın Nokta, Ankara, 2013

VIII. **Matematik Olimpiyatlarına Hazırlık 4**

ÖZDEMİR M.

Altın Nokta, Ankara, 2013

IX. **Matematik Olimpiyatlarına Hazırlık 3**

ÖZDEMİR M.

Altın Nokta, Ankara, 2013

X. **Akdeniz Üniversitesi Ulusal Antalya Matematik Olimpiyatları**

ALİYEV İ., ÖZDEMİR M., Şihaliyeva D.

Altın Nokta Yayınevi, İzmir, 2010

XI. **Matematik Olimpiyatlarına Hazırlık 1 (Temel Bilgiler) 5. Basım**

ÖZDEMİR M.

Altın Nokta, Ankara, 2010

**XII. Ulusal Antalya Matematik Olimpiyatları**

ALİYEV İ., ÖZDEMİR M., Şihaliyeva D.

TÜBITAK Yayınları, Ankara, 2006

## Papers Published in Refereed Scientific Meetings

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- I. **Elliptical Motion on a Given Ellipsoid**  
ÖZDEMİR M.  
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2017), Budapest, Hungary, 15 - 18 August 2017
- II. **On the generalised Hyperbolical Rotation Matrices**  
ÖZDEMİR M., ŞİMŞEK H.  
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, İstanbul, Turkey, 3 - 07 July 2017
- III. **Elliptic Quaternions and Rotations**  
ÖZDEMİR M.  
INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING, İstanbul, Turkey, 10 - 12 May 2017, pp.126
- IV. **Getting an Hyperbolical Rotation Matrix by Using Householder's Method in 3-Dimensional Space**  
Şimşek H., ÖZDEMİR M.  
14th International Geometry Symposium, Denizli, Turkey, 25 - 28 May 2016, pp.58
- V. **Exponential of Split Quaternion Matrices**  
ÖZDEMİR M., Erdoğan M.  
14th International Geometry Symposium, Denizli, Turkey, 25 - 28 May 2016, pp.64
- VI. **Hasimoto Surfaces in Minkowski 3-Space with Parallel Frame**  
Erdoğan M., ÖZDEMİR M.  
14th International Geometry Symposium, Denizli, Turkey, 25 - 28 May 2016, pp.60
- VII. **Rodrigues and Cayley Formulas for Hyperbolical Rotation in 3 dimensional Space**  
Şimşek H., ÖZDEMİR M.  
International Conference on Advances in natural and Applied Sciences, Antalya, Turkey, 21 - 23 April 2016, pp.56
- VIII. **On Simple Rotations in Euclidean Four Space**  
ÖZDEMİR M., Erdoğan M.  
International Conference on Advances in natural and Applied Sciences, Antalya, Turkey, 21 - 23 April 2016, pp.57
- IX. **Generating Double Rotations in Euclidean Four Space with Applications**  
Erdoğan M., ÖZDEMİR M.  
International Conference on Advances in natural and Applied Sciences, Antalya, Turkey, 21 - 23 April 2016, pp.55
- X. **On Conformal Curves in 2-Dimensional de Sitter Space**  
Şimşek H., ÖZDEMİR M.  
3. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.123
- XI. **De- Moivre's and Euler Formulas for Matrices of Split Quaternions**  
Erdoğan M., ÖZDEMİR M.  
23. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.125
- XII. **On Reflections and Cartan-Dieudonné Theorem in Minkowski 3-space**  
ÖZDEMİR M., Erdoğan M.  
4TH INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Atina, Greece, 31 August - 03 September 2015, pp.300
- XIII. **The Geometric Invariants of Null Cartan Curves Under Similarity Transformations**  
Şimşek H., ÖZDEMİR M.

13. Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015, pp.144
- XIV. **Generating Rotation Matrices in Minkowski Space-time**  
Erdoğan M., ÖZDEMİR M.  
13. Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015, pp.92
- XV. **The Similarity Invariants of Non-lightlike Curves in the Minkowski 3-space**  
Şimşek H., ÖZDEMİR M.  
The 28th International Conference of The Jangjeon Mathematical Society, Antalya, Turkey, 15 - 19 May 2015, pp.84
- XVI. **Matrices Over Hyperbolic Split Quaternions**  
Erdoğan M., ÖZDEMİR M.  
The 28th International Conference of The Jangjeon Mathematical Society, Antalya, Turkey, 15 - 19 May 2015, pp.85
- XVII. **On Backlund Transformation for Timelike Curves in Minkowski Space-Time**  
ERGİN A. A., Erdoğan M., ÖZDEMİR M.  
XII. GEOM. SEMP., Bilecik, Turkey, 23 - 26 June 2014, pp.127
- XVIII. **On Backlund Transformation for Timelike Curves in Minkowski Space-Time**  
ERGİN A. A., Erdoğan M., ÖZDEMİR M.  
XII. GEOM. SEMP., Bilecik, Turkey, 23 - 26 June 2014, pp.127
- XIX. **Bäcklund Transformation for Spacelike Curves in  $E_1^4$**   
ÖZDEMİR M., Erdoğan M., ERGİN A. A.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.432
- XX. **On Matrix Representations of Split Quaternions and Complex Split Quaternions**  
Erdoğan M., ÖZDEMİR M., Erdoğan M.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.266
- XXI. **Bäcklund Transformation for Spacelike Curves in  $E_1^4$**   
ÖZDEMİR M., Erdoğan M., ERGİN A. A.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.432
- XXII. **On the Eigenvalues and Eigenvectors of a Lorentzian Rotation Matrix which is Generated by 272 a Timelike Quaternion**  
ÖZDEMİR M., Erdoğan M.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.272
- XXIII. **On Linear Split Quaternionic Equations**  
Erdoğan M., ÖZDEMİR M.  
The 4th International Conference on Matrix Analysis and Applications, Konya, Turkey, 2 - 05 July 2013, pp.11
- XXIV. **Complex Split Quaternion Matrices**  
Erdoğan M., ÖZDEMİR M.  
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