

# Assoc. Prof. Fatma AYDOĞMUŞ ŞEN

## Personal Information

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**Email:** fatmaa@istanbul.edu.tr

**Web:** <http://aves.istanbul.edu.tr/fatmaa/>

## Education Information

Doctorate, İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Fizik, Turkey 2007 - 2013

Post Graduate, İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Fizik, Turkey 2005 - 2007

Under Graduate, İstanbul Üniversitesi, Faculty of Science, Fizik, Turkey 2000 - 2004

## Foreign Languages

English, C1 Advanced

## Certificates, Courses and Trainings

Education Management and Planning, Eğitimcilerin Eğitimi Programı, Hacettepe Üniversitesi, 2016

## Dissertations

Doctorate, Spinör Tipi Instanton Çekicilerinin Faz Uzayı Davranışları , İstanbul University, Institute of Graduate Studies In Sciences, Fizik, 2012

Post Graduate, Uzaysal Evrimde Gürsey Solitonlarının Karallığı, İstanbul University, Institute of Graduate Studies In Sciences, Fizik, 2007

## Research Areas

Physics, Basic Particles and Areas, General Theory of Particles and Fields, Natural Sciences

## Academic Titles / Tasks

Associate Professor, İstanbul University, Faculty of Science, Department of Physics, 2019 - Continues

Assistant Professor, İstanbul University, Faculty of Science, Department of Physics, 2018 - 2019

Research Assistant PhD, İstanbul Üniversitesi, Faculty of Science, Department of Physics, 2013 - 2018

Research Assistant, İstanbul Üniversitesi, Fen Fekültesi, Fizik, 2006 - 2013

## Courses

Yüksek Enerji Hızlandırıcıları Fiziği, Under Graduate, 2019 - 2020

Introduction to Linear Algebra, Under Graduate, 2019 - 2020

Analiz 1, Under Graduate, 2019 - 2020

Parçacık Dedektörleri Fiziğine Giriş, Under Graduate, 2018 - 2019

İleri Fizik Uygulamaları, Under Graduate, 2018 - 2019

Bilgisayar Programlama I (Eski Müfredat), Under Graduate, 2018 - 2019

Yüksek Enerji Hızlandırıcıları, Under Graduate, 2018 - 2019  
Bilgisayar Programlama I (Yeni Müfredat), Under Graduate, 2018 - 2019  
Veri Tabanı Uygulamaları, Under Graduate, 2016 - 2017  
Temel Bilgi Teknolojileri, Under Graduate, 2016 - 2017  
Fizikte Bilgisayarla Hesaplamalar, Under Graduate, 2016 - 2017  
Bilgisayar Programlama II, Under Graduate, 2016 - 2017  
Bilgisayar I, Under Graduate, 2016 - 2017  
Fizikte Bilgisayarla Hesaplamalar Uygulama, Under Graduate, 2012 - 2013  
Fizik IV Uygulama , Under Graduate, 2012 - 2013  
Teorik Fizikte Seçme Konular Uygulama, Under Graduate, 2011 - 2012  
Temel Tanecikler Uygulama, Under Graduate, 2010 - 2011  
Bilgisayar Programlama II Uygulama, Under Graduate, 2010 - 2011  
Bilgisayar Programlama I Uygulama, Under Graduate, 2010 - 2011  
Analiz I Uygulama, Under Graduate, 2008 - 2009  
Analiz II Uygulama, Under Graduate, 2008 - 2009

## Jury Memberships

Award, Proje Jüri Üyeliği, İstanbul Çevre Okulları, April, 2007

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Search for disappearing tracks in proton-proton collisions at  $s=13\text{TeV}$**   
Sirunyan A., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.806, 2020 (Journal Indexed in SCI Expanded)
- **Master-slave synchronization of Bose-Einstein condensate in 1D tilted bichromatical optical lattice**  
Tosyalı E., AYDOĞMUŞ F.  
CONDENSED MATTER PHYSICS, vol.23, no.1, 2020 (Journal Indexed in SCI)
- **Regular and chaotic solutions in BEC for tilted bichromatical optical lattice**  
Tosyalı E., Aydogmus F., Yılmaz A.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.32, 2018 (Journal Indexed in SCI)
- **Unstable behaviors of classical solutions in spinor-type conformal invariant fermionic models**  
Aydogmus F.  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS, vol.125, pp.719-727, 2017 (Journal Indexed in SCI)
- **Numeric Solutions of Dirac-Gursey Spinor Field Equation Under External Gaussian White Noise**  
Aydogmus F.  
FLUCTUATION AND NOISE LETTERS, vol.15, 2016 (Journal Indexed in SCI)
- **Chaos in a 4D dissipative nonlinear fermionic model**  
Aydogmus F.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.26, 2015 (Journal Indexed in SCI)
- **Dynamics of excited instantons in the system of forced Gursey nonlinear differential equations**  
Aydogmus F.  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS, vol.120, pp.210-216, 2015 (Journal Indexed in SCI)
- **Common Behaviors of Spinor-Type Instantons in 2D Thirring and 4D Gursey Fermionic Models**  
Aydogmus F., Tosyalı E.  
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (Journal Indexed in SCI)
- **THE BEHAVIOURS OF GURSEY INSTANTONS IN PHASE SPACE**  
Aydogmus F., Canbaz B., Onem C., Akdeniz K. G.

ACTA PHYSICA POLONICA B, vol.44, pp.1837-1845, 2013 (Journal Indexed in SCI)

- **From Heisenberg ansatz to attractor of Thirring Instanton**

Canbaz B., Onem C., Aydogmus F., Akdeniz K. G.

CHAOS SOLITONS & FRACTALS, vol.45, pp.188-191, 2012 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Soliton Dynamics in a 4D Nonlinear Spinor Field Model under White Noise**

Aydogmu F.

Physics of Particles and Nuclei Letters, vol.16, pp.613-619, 2019 (Refereed Journals of Other Institutions)

- **The Dynamic of Trapped Bose-Einstein Condensate Under Noise**

Tosyali E., AYDOĞMUŞ F.

Journal of Physics, no.12124, pp.1-5, 2018 (Refereed Journals of Other Institutions)

- **The Effect of Chaos Theory on the Predictability of the Atmosphere**

Aydogmus F., Tosyali E.

Middle East Journal of Science, vol.3, pp.26-31, 2017 (Refereed Journals of Other Institutions)

- **The Effect of Bichromatic Potential on Thirring Instantons**

AYDOĞMUŞ F.

Dokuz Eylul University-Faculty of Engineering Journal of Science and Engineering, vol.19, no.55, pp.1-9, 2017 (National Refreed University Journal)

- **Numerical Solutions of GPE under Gaussian Trap**

Tosyali E., AYDOĞMUŞ F.

Proceedings of the 16th CMMSE, ISBN 13-978-84-608-6082-2, no.2, pp.1516-1524, 2016 (Refereed Journals of Other Institutions)

- **Dynamical Study of Gursej Instantons with Bichromatic Force**

AYDOĞMUŞ F., Tosyali E.

Proceedings of the 16th CMMSE, ISBN 13-978-84-608-6082-2, no.2, pp.1328-1336, 2016 (Refereed Journals of Other Institutions)

- **On The Duffing Type Behaviors of Gursej Instantons**

AYDOĞMUŞ F., AKDENİZ K. G. , SAĞALTICI S.

Beykent University Journal of Science and Technology (BUJST), no.1, pp.120-126, 2009 (National Refreed University Journal)

- **The Role of Coupling Constant in the Evolution of Thirring Instantons**

Canbaz B., Onem C., AYDOĞMUŞ F., AKDENİZ K. G.

Balkan Physics Letters, vol.16, 2009 (Refereed Journals of Other Institutions)

- **Global Climate Change And Human With A Syborg Science Doctrin**

AYDOĞMUŞ F., AKDENİZ K. G.

IV. International Symposium on Sciences of Atmosphere, Istanbul Teknik Universitesi Yayınları, pp.437-443, 2008 (International Refreed University Journal)

- **Küresel İklim Değişiminin Zamansal Evrimi**

AYDOĞMUŞ F., AKDENİZ K. G.

Küresel İklim Değişimi ve Su Sorunlarının Çözümünde Ormanlar, Yalın Yayıncılık, pp.229-231, 2007 (National Refreed University Journal)

- **Küresel İklim Değişimi Kaotik mi?**

AYDOĞMUŞ F., Akdeniz K.

Nüksem2007, EMO Yayın, vol.SK/2007/3, pp.86-89, 2007 (National Non-Refreed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- **The Dynamics of Gursej Solitons**

AYDOĞMUŞ F., Tosyali E.

International Conference on Computational and Mathematical Methods in Science and Engineering, Cadiz, Spain,

30 June - 06 July 2019, pp.1-13

- **A Study on the Chaotic Solutions of BEC**

Tosyali E., AYDOĞMUŞ F.

International Conference on Computational and Mathematical Methods in Science and Engineering, Cadiz, Spain, 30 June - 06 July 2019

- **Soliton Solutions of Gursej Model with Bichromatic Force**

Tosyali E., Aydogmus F.

3rd International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 4 - 08 September 2019, vol.2183

- **The Dynamic of Trapped Bose-Einstein Condensate under Noise**

Tosyali E., Aydogmus F.

7th International Conference on Mathematical Modeling in Physical Sciences, IC-MSQUARE 2018, Moscow, Russia, 27 - 31 August 2018, vol.1141

- **Investigation of BEC under Gaussian White Noise**

Tosyali E., AYDOĞMUŞ F.

34. International Physics Congress, Muğla, Turkey, 5 - 09 September 2018

- **Instability in BEC under Noise for Random Periodic Potential**

Tosyali E., AYDOĞMUŞ F.

34. International Physics Congress, Muğla, Turkey, 5 - 09 September 2018

- **On Chaotic Solutions of Gross-Pitaevskii Equation**

Tosyali E., AYDOĞMUŞ F.

International Conference on Mathematical Advances and Applications (ICOMAA2018), İstanbul, Turkey, 11 - 13 May 2018, pp.7

- **Some Classical Solutions of Dirac-Gursej Field Equation**

AYDOĞMUŞ F., Tosyali E.

International Conference on Mathematical Advances and Applications (ICOMAA2018), İstanbul, Turkey, 11 - 13 May 2018, pp.10

- **Investigation of Shock Waves in the Gross-Pitaevskii Equation**

Tosyali E., AYDOĞMUŞ F.

33. International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.317

- **Regular and Chaotic Behaviours in the Gross-Pitaevskii Equation**

Tosyali E., Aydogmus F.

33. International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.337

- **Vector Field Dynamic of 4D Spinor-type Instantons**

AYDOĞMUŞ F., Tosyali E.

International Conference on Applied Analysis and Mathematical Modelling (ICAAMM2017), İstanbul, Turkey, 3 - 07 July 2017, pp.221

- **Regular and chaotic solutions in the 4D spinor wave equation**

AYDOĞMUŞ F., Tosyali E.

International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.386

- **A numerical study on the dynamic of Gross-Pitaevskii equation**

Tosyali E., AYDOĞMUŞ F.

International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.364

- **A Numerical Study on the 2D Nonlinear Fermionic Model**

AYDOĞMUŞ F., Tosyali E.

International Workshop on Mathematical Methods in Engineering, Ankara, Turkey, 27 - 29 April 2017, pp.47-48

- **Cluster Analysis of 4D SpinorType Instantons under BichromaticPotential**

Tosyali E., AYDOĞMUŞ F.

International Engineering, Science and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016, pp.197-200

- **The Effect of Chaos Theory on the Predictability of the Atmosphere**

AYDOĞMUŞ F., Tosyali E.

International Engineering, Science and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016, pp.192-197

- **Thirring Instantonlarının Beyaz Gürültü Altında Evrimi**  
Tosyali E., AYDOĞMUŞ F.  
GEFİK-2016, İzmir, Turkey, 12 - 14 October 2016, pp.12
- **Chaos in BEC for Gaussian Optical Lattice Potential**  
Tosyali E., AYDOĞMUŞ F.  
3th International Conference “Dynamics, Bifurcations, and Strange Attractors”, Nizhny Novgorod, Russia, 18 - 22 July 2016
- **The Effects of White Noise in Fermionic Systems**  
AYDOĞMUŞ F., Tosyali E.  
3th International Conference “Dynamics, Bifurcations, and Strange Attractors”, Nizhny Novgorod, Russia, 18 - 22 July 2016
- **From Regularity to Chaos in the GPE with Bichromatic Trap**  
Tosyali E., AYDOĞMUŞ F.  
3th International Conference “Dynamics, Bifurcations, and Strange Attractors”, Nizhny Novgorod, Russia, 18 - 22 July 2016, pp.1
- **Numerical Solutions of GPE under Gaussian Trap**  
Tosyali E., AYDOĞMUŞ F.  
16th International Conference Computational and Mathematical Methods in Science and Engineering, Madrid, Spain, 4 - 08 July 2016, pp.1516-1524
- **Dynamical Study of Gursev Instantons with Bichromatic Force**  
AYDOĞMUŞ F., Tosyali E.  
16th International Conference Computational and Mathematical Methods in Science and Engineering, Madrid, Spain, 4 - 08 July 2016, pp.1328-1336
- **The Chaotic Behaviours in Shock Waves**  
Tosyali E., AYDOĞMUŞ F.  
9th International Physics Conference of the Balkan Physical Union – BPU9, İstanbul, Turkey, 24 - 27 August 2015, pp.167
- **Global Climate Change in Consideration of Chaos Theory**  
AYDOĞMUŞ F., Tosyali E.  
9th International Physics Conference of the Balkan Physical Union – BPU9, İstanbul, Turkey, 24 - 27 August 2015, pp.502
- **Thirring Noise Model**  
AYDOĞMUŞ F., Tosyali E.  
9th International Physics Conference of the Balkan Physical Union – BPU9, İstanbul, Turkey, 24 - 27 August 2015, pp.136
- **Regular and Chaotic Dynamics in the Gross-Pitaevskii Equation by an External Potential**  
Tosyali E., AYDOĞMUŞ F.  
4th Int. Conf. on Mathematical Modeling in Physical Sciences, Mykonos, Greece, 5 - 08 June 2015
- **Numerical Analysis of Thirring Model under White Noise**  
Aydogmus F., Tosyali E.  
4th International Conference on Mathematical Modeling in Physical Sciences (IC-MSquare), Mykonos, Greece, 5 - 08 June 2015, vol.633
- **Shock waves in BEC for tilted bichromatic optical lattice**  
Tosyali E., AYDOĞMUŞ F.  
Fourth International Workshop on Statistical Mechanics and Dynamical Systems, Athens, Greece, 17 - 19 July 2014, pp.1
- **Transition from Regular Structure to Chaos in 4D Spinor Type Instantons (Oral Presentation)**  
AYDOĞMUŞ F., Tosyali E.  
The 10th AMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, 7 - 11 July 2014, pp.531
- **Nonlinear Solutions in BEC for Different Potentials (Oral Presentation)**  
Tosyali E., AYDOĞMUŞ F.  
5th Conference on Nonlinear Vibrations, Localization and Energy Transfer - NV2014, ISTANBUL TECHNICAL

UNIVERSITY, İstanbul, Turkey, 2 - 05 July 2014, pp.79-80

- **Cluster Analysis of 4D Spinor Type Instantons**

AYDOĞMUŞ F., Tosyali E.

31. International Physics Congress, Bodrum, Muğla, Turkey, 1 - 04 July 2014, pp.463

- **Shock Wave Chaos In The Gpe For A 1d Tilted Bichromatic Optical Lattice (Oral Presentation)**

Tosyali E., ÖZER H., AYDOĞMUŞ ŞEN F.

30. International Physics Congress, Muğla, Turkey, 1 - 04 July 2014, pp.151

- **Search of Regular and Chaotic Behaviours for Forced Gursej Nonlinear Differential Equations System (Oral Presentation)**

AYDOĞMUŞ F., Tosyali E., AKDENİZ K. G.

30. International Physics Congress, Turkey, 1 - 04 September 2013

- **An Investigation of Regular and Chaotic Behaviours in the Forced Gursej Nonlinear Differential Equations System (Oral Presentation)**

AYDOĞMUŞ F.

International Conference Anatolian Communications in Nonlinear Analysis, Abant İzzet Baysal University, BOLU, Bolu, Turkey, 1 - 04 July 2013, pp.16

- **Dış Potansiyel Etkisi Altında Bose-Einstein Yoğuşmasının Dinamiği (Sözlü Bildiri)**

Tosyali E., AYDOĞMUŞ F.

Genç Fizikçiler Kongresi, İzmir, Turkey, 1 - 04 July 2013, pp.13

- **Investigation of Chaotic Behaviours in BEC Using Gaussian Trap (Oral Presentation)**

Tosyali E., AYDOĞMUŞ F.

International Conference Anatolian Communications in Nonlinear Analysis, Abant İzzet Baysal University, BOLU, Turkey, 1 - 04 July 2013, pp.41

- **Search of Chaos in Bose-Einstein Condensate in Tilted Bichromatic Potential**

Tosyali E., AYDOĞMUŞ F.

3rd International Conference: Nonlinear Waves-Theory and Applications, Beijing, China, 1 - 04 June 2013, pp.220

- **Two-Dimensional Vector Field Visualization Of Gursej Instantons**

AYDOĞMUŞ F., Tosyali E., AKDENİZ K. G.

3rd International Conference: Nonlinear Waves-Theory and Applications, Beijing, China, 1 - 04 June 2013, pp.207

- **Two-Dimensional Phase Space Analysis and Bifurcation of Forced Gursej Instantons (Oral Presentation)**

AYDOĞMUŞ F., AKDENİZ K. G.

29. International Physics Congress, Bodrum, MUĞLA, Turkey, 1 - 04 September 2012, pp.245

- **The Behaviours of Spinor Type Instantons in Phase Space (Invited Speaker)**

AYDOĞMUŞ F.

DESY (Deutsches Elektronen-Synchrotron) Seminars, Hamburg, Germany, 1 - 04 June 2010

- **Gursej Instantons and the Heisenberg Ansatz (Invited Speaker)**

AYDOĞMUŞ F.

Max Planck Institute (MPI) Seminars 2010, Munich, Germany, 1 - 04 June 2010

- **From Thirring Instantons to Gursej Instantons in Phase Space (Oral Presentation)**

AYDOĞMUŞ F., Canbaz B., Önem C., AKDENİZ K. G.

The 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Dresden, Germany, 25 - 28 May 2010, pp.1

- **Duffing Attractor Like Behaviours of Gursej and Thirring Instantons (Oral Presentation)**

AYDOĞMUŞ F., Canbaz B., Önem C., AKDENİZ K. G.

7th BPU General Conference, Alexandroupolis, Greece, 1 - 04 September 2009

- **Thirring Instantonlarının Kararlılığı Üzerine (Sözlü Bildiri)**

AYDOĞMUŞ F., Canbaz B., Önem C., AKDENİZ K. G.

26. International Physics Congress, Bodrum, MUĞLA, Turkey, 1 - 04 September 2009

- **Theory, Model and Complexity**

AYDOĞMUŞ F.

IX. Symposium Disorder Systems: Theory and Applications, İzmir, Turkey, 20 - 27 August 2009

- **Instanton Type Solutions of Thirring Nonlinear Wave Equation and Behaviours in Phase Space (Oral Presentation)**

AYDOĞMUŞ F., Canbaz B., Önem C., AKDENİZ K. G.

9. Workshop on Dynamic Systems, İzmir University, İzmir, Turkey, 1 - 04 June 2009

- **Global Climate Change and Human with A Syborg Science Doctrin (Oral Presentation)**

AYDOĞMUŞ F., AKDENİZ K. G.

IV. International Symposium on Sciences of Atmosphere, Istanbul Technical University (ITU), ISTANBUL, Turkey, 1 - 04 April 2008, pp.437-443

- **Duffing Attaractor Like Behaviours of Spinor Type Instantons**

AYDOĞMUŞ F., AKDENİZ K. G.

III. Istanbul Universitesi Bilim Gunleri, İstanbul, Turkey, 1 - 04 April 2008

- **The Temporal Evolution of Global Climate Chnage**

Aydogmus F., AKDENİZ K. G.

Küresel İkli Değişimi ve Su Sorununun Çözümünde Ormanlar, İstanbul, Turkey, 13 - 14 December 2007, pp.229-231

- **Is Global Climate Change Chaotic? (Oral Presentation)**

AYDOĞMUŞ F., AKDENİZ K. G.

Nuclear Energy Symposium, Adana, Turkey, 1 - 04 November 2007, pp.86-89

- **Time Series Anaysis**

AYDOĞMUŞ F.

VII. Symposium Disorder Systems: Theory and Applications, İzmir, Turkey, 21 - 27 August 2007

- **Chaotic Dynamics of Gürsey Instantons in Phase Space (Oral Presentation)**

AKDENİZ K. G. , AYDOĞMUŞ F., SAĞALTICI S., Önem C.

International Congress "Nonlinear Dynamical Analysis – 2007" dedicated to the 150th anniversary of Academician A. M. Lyapunov ,Saint-Petersburg State University, Russia, 1 - 04 June 2007

- **From instability to stability in classical solutions**

AYDOĞMUŞ F.

VI. Symposium Disorder Systems: Theory and Applications, İzmir, Turkey, 29 August - 05 September 2006

- **Chaos and Global Warming (Oral Presentation)**

AYDOĞMUŞ F.

V. Symposium Disorder Systems: Theory and Applications, İzmir, Turkey, 1 - 04 August 2005

## Supported Projects

AYDOĞMUŞ ŞEN F., TOSYALI E., SALARIA., Project Supported by Higher Education Institutions, 0-mod Instanton Süreçlerinin CERN Deneylerinde Araştırılması, 2018 - Continues

AYDOĞMUŞ ŞEN F., Project Supported by Higher Education Institutions, Chaos in a 4D Dissipative Nonlinear Fermionic Model, 2015 - Continues

AYDOĞMUŞ ŞEN F., Project Supported by Higher Education Institutions, Common Behaviors of Spinor-Type Instantons in 2D Thirring and 4D Gurseş Fermionic Models, 2014 - Continues

AYDOĞMUŞ ŞEN F., Project Supported by Higher Education Institutions, Numeric Solutions of Dirac-Gurseş Spinor Field Equation Under External Gaussian White Noise, 2017 - 2017

AYDOĞMUŞ ŞEN F., Project Supported by Higher Education Institutions, Spinör Tipi Konformal Alan Modellerinde Klasik Çözümlerin Dinamiği, 2013 - 2016

AYDOĞMUŞ ŞEN F., Project Supported by Higher Education Institutions, The Behaviours of Gurseş Instantons in Phase Space, 2014 - 2014

AYDOĞMUŞ ŞEN F., Project Supported by Higher Education Institutions, Two-Dimensional Vector Field Visualization of Gurseş Instantons, 2013 - 2013

## Memberships / Tasks in Scientific Organizations

CERN-CMS Deneyine Üye Fizikçi, Member, 2017 - Continues

## Scientific Refereeing

Eskişehir Technical University Journal Of Science and Technology A- Applied Sciences and Engineering, National Scientific Refreed Journal, June 2019  
Sakarya University Journal of Science, National Scientific Refreed Journal, March 2019  
Fluctuation and Noise Letters, SCI Journal, September 2017  
Fluctuation and Noise Letters, SCI Journal, July 2016

## Invited Congress and Symposium Activities

CERN (European Organization for Nuclear Research), 09 July-12 August 2019, Geneva, Switzerland, Attendee, Geneva, Switzerland, 2019  
International Workshop on Mathematical Methods in Engineering, Attendee, Ankara, Turkey, 2017  
CERN (European Organization for Nuclear Research), 18 June-21 August 2015, Geneva, Switzerland, Attendee, GENEVA, Turkey, 2015  
The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Attendee, MADRID, SPANYA, Spain, 2014  
International Conference Anatolian Communications in Nonlinear Analysis, Abant İzzet Baysal University, Attendee, BOLU,, Turkey, 2013  
3rd International Conference: Nonlinear Waves-Theory and Applications, Beijing, Attendee, ÇİN, China, 2013  
International School of Subnuclear Physics, Searching For The Unexpected at LHC And Status of Our Knowledge (49th Course), Erice-Palermo, Attendee, İTALYA, Italy, 2011  
CERN (European Organization for Nuclear Research), 18-25 June 2010.Geneva, Switzerland, Attendee, İSVİÇRE, Turkey, 2010  
DESY (Deutsches Elektronen-Synchrotron) , 1-5 June 2010,Hamburg, Germany, Attendee, ALMANYA, Germany, 2010  
Max Planck Institue (MPI), 6-18 June 2010,Munich, Germany, Attendee, ALMANYA, Germany, 2010  
The 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, 25-28 May 2010, Dresden, Attendee, ALMANYA, Germany, 2010  
7th BPU General Conference, 9-13 September 2009, Alexandroupolis, Greece, Attendee, YUNANİSTAN, Greece, 2009  
27. International Physics Congress, 24-27 September 2009,, Attendee, Bodrum, Turkey, Turkey, 2009  
9. Workshop on Dynamic Systems,18-19 June 2009, İzmir University, Attendee, İzmir, Turkey, Turkey, 2009  
III. Istanbul University Days of Science, 16 April 2008, Istanbul University Ord. Prof. Dr. Cemil Bilsel Conference Hall., Attendee, İstanbul, Turkey, 2008  
X. National Liquid States Physics Symposium, 28 September -1 October 2006 , Istanbul University Baltalimanı, Facility., Attendee, İstanbul, Turkey, 2006  
VI. International Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2006  
I. Interdisciplinary Chaos Symposium, Chaos and Complex Systems,12–13 May 2006, Kültür University., Attendee, İstanbul, Turkey, 2006  
World Year of Physics 2005-23rd International Physics Congress of Turkish Physical Society,Mugla University, 13–16 September 2005, Attendee, Muğla, Turkey, 2005  
12.Statistic Physics Days, 30 June–2 July 2005, Istanbul Technical University, Attendee, İstanbul, Turkey, 2005

## Citations

Total Citations (WOS):37  
h-index (WOS):5

## Awards

AYDOĞMUŞ ŞEN F., "Chaos in a 4D Dissipative Nonlinear Fermionic Model", BAP Onur Plaketi, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, June 2016



AYDOĞMUŞ ŞEN F., "Common Behaviors Of Spinor-Type Instantons In 2d Thirring And 4d Gurse Fermionic Models", BAP Onur Plaketi, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2015

AYDOĞMUŞ ŞEN F., "The Behaviours Of Gurse Instantons In Phase Space", BAP Onur Plaketi, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2015

AYDOĞMUŞ ŞEN F., "From Heisenberg Ansatz To Attractor Of Thirring Instanton", BAP Teşekkür Belgesi, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, March 2013

AYDOĞMUŞ ŞEN F., Proje Jüri Üyeliği Plaketi, İstanbul Çevre Okulları, April 2007