

## Prof. Ayhan BİNGÖLBALİ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-6270-2020

ScopusID: 25647228000

Yoksis Researcher ID: 149778

### Education Information

Postgraduate, University of Alberta, Faculty Of Medicine And Dentistry, Oncology/Medical Physics , Canada 2011 - 2014

Doctorate, State University of New York University at Albany, College Of Arts And Sciences, Physics, United States Of America 2003 - 2008

Postgraduate, State University of New York University at Albany, College Of Arts And Sciences, Physics, United States Of America 2003 - 2004

### Dissertations

Postgraduate, Response of Lipid Olefinic Protons to In-Vivo Magnetic Resonance Spectroscopy Sequences at 3 T, University of Alberta, Faculty of Medicine and Dentistry, Oncology, 2014

Doctorate, Curved Crystal X-ray Optics for Monochromatic Analysis and Imaging, State University of New York at Albany, Art and Science, Physics, 2008

### Research Areas

Radiation Oncology, Radiodiagnostic, Biomedical Engineering, Biomedical Image Processing, Clinical Engineering, Electromagnetic in Biology and Medicine, Life Sciences, Biophysics, Radiation Biophysics, Biotechnology, Biomaterial, Physics, Biophysics and Medical Physics, Materials Science, Magnetic Properties and Materials

### Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2022 - Continues

Researcher, State University of New York at Albany, Faculty of Arts and Sciences, Physics, 2022 - 2023

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2017 - 2022

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2011 - 2017

Research Assistant, University of Alberta, 2011 - 2013

Expert PhD, Ordway Research Institute, Oncology, Oncology, 2009 - 2010

Research Assistant, State University of New York at Albany, 2003 - 2009

## Academic and Administrative Experience

Uyum Komisyonu Üyesi, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2018 - Continues

Bölüm Stratejik Plan Komisyonu Üyesi, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2014 - 2018

Mevlana Exchange Program Coordinator, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2013 - 2018

## Courses

BioMedical Physics, Undergraduate, 2020 - 2021, 2019 - 2020

Physics, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Physic, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Biomedical Electronics, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Araştırma Yöntemleri ve Bilimsel Etik , Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Magnetic Particle Imaging, Postgraduate, 2018 - 2019

Medical Physics, Doctorate, 2018 - 2019

Radiation Physics, Postgraduate, 2017 - 2018

Biophysics in Bioengineering, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Medical Imaging Techniques, Postgraduate, 2017 - 2018, 2016 - 2017

Bionanotechnology , Doctorate, 2017 - 2018

Introductory Computer Sciences, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Biothermodynamics, Undergraduate, 2014 - 2015

## Advising Theses

Bingölbali A., Using of Multiple Methods of Fundamental Recovery for Reconstruction Enhancement of Magnetic Particle Imaging, Postgraduate, A.OLAMAT(Student), Continues

Bingölbali A., Optimization of Mathematical Models for Magnetic Particle Imaging, Postgraduate, D.AK(Student), Continues

Bingölbali A., Primer Karaciğer Tümörlerinde Y-90 Mikrosfer ile Radyoembolizasyon: Karşılaştırmalı Dozimetrik Değerlendirme, Doctorate, Ö.YILDIRIM(Student), Continues

Bingölbali A., Synthesis and characterization of iron-doped manganese oxide nanoparticles with potential in cancer applications, Postgraduate, E.KÖKLÜ(Student), 2022

Bingölbali A., Design and Implementation of Magnetic Particle Imaging (MPI) Scanner for Medical Applications, Doctorate, M.Irfan(Student), 2021

Bingölbali A., Magnet Design for Portable Magnetic Resonance Imaging and Magnetic Particle Imaging Scanners, Postgraduate, M.ERGÖR(Student), 2021

Bingölbali A., Magnet Design for Magnetic Particle Imaging System, Postgraduate, F.BALCI(Student), 2020

Bingölbali A., Optimization of Hybrid Treatment Technique in Radiotherapy Treatment of Different Anatomic Regions, Doctorate, Y.SAĞLAM(Student), 2018

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, July, 2020

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2019

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2019

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2019

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2019

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2019

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2019

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2019

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2019

Post Graduate, Post Graduate, İstanbul Medeniyet Üniversitesi, January, 2019

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, January, 2019

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2018

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, October, 2018

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, July, 2018

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2018

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, November, 2017

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, May, 2017

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, September, 2016

## Designed Lessons

Bingölbali A., Medical Physics, Doctorate, 2018 - 2019

Bingölbali A., Biomedical Electronics , Undergraduate, 2018 - 2019

Bingölbali A., Magnetic Particle Imaging, Postgraduate, 2018 - 2019

Bingölbali A., BioMedical Physics, Undergraduate, 2018 - 2019

Bingölbali A., Araştırma Yöntemleri ve Bilimsel Etik, Postgraduate, 2017 - 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Violation of Bell's Inequality in the Clauser-Horne-Shimony-Holt Form with Entangled Quantum States Revisited**  
Cafaro C., Corda C., Cairns P., Bingölbali A.  
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.63, no.112, pp.1-23, 2024 (SCI-Expanded)
- II. **Monte Carlo calculations of critical organ doses in radioembolization therapy of primary liver tumors via 90Y microspheres**  
YILDIRIM Ö. C., BİNGÖLBALÍ A., BOZKURT A., Cafaro C., Demirkol M.  
International Journal of Radiation Research, vol.21, no.3, pp.353-360, 2023 (SCI-Expanded)
- III. **Influence of Functionalization with Citric Acid on the Properties of Magnetic Nanoparticles Zn<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub>**

**x04 ( $0 \leq x \leq 1.0$ )**

Kamzin A., Caliskan G., Dogan N., Bingölbali A., Semenov V., Buryanenko I.  
PHYSICS OF THE SOLID STATE, vol.64, no.10, pp.1599-1612, 2022 (SCI-Expanded)

- IV. **Development of Magnetic Particle Imaging (MPI) Scanner for Phantom Imaging of Tracer Agents**  
Irfan M., Doğan N., Mercan Doğan Ö., Bingölbali A.  
IEEE TRANSACTIONS ON MAGNETICS, vol.58, no.8, pp.1-6, 2022 (SCI-Expanded)
- V. **Selection field generation using permanent magnets and electromagnets for a magnetic particle imaging scanner**  
Irfan M., Mercan Dogan O., Doğan N., Bingölbali A.  
ALEXANDRIA ENGINEERING JOURNAL, vol.61, no.10, pp.7685-7696, 2022 (SCI-Expanded)
- VI. **Field-Free Line Magnetic Particle Imaging Magnet Design Using Nested Halbach Cylinders**  
Ergor M., Bingölbali A.  
IEEE MAGNETICS LETTERS, vol.13, 2022 (SCI-Expanded)
- VII. **Synthesis and characterization of NiFe<sub>2</sub>O<sub>4</sub> magnetic nanoparticles with different coating materials for magnetic particle imaging (MPI)**  
Irfan M., Dogan N., Bingolbali A., Aliew F.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.537, 2021 (SCI-Expanded)
- VIII. **Development of MPI relaxometer for characterization of superparamagnetic nanoparticles**  
Irfan M., Dogan N., Sapmaz T., Bingolbali A.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.536, 2021 (SCI-Expanded)
- IX. **Nested Halbach Arrays of Rectangular, Cylindrical, and Polygonal Magnets Optimize the Field-Free Line in Magnetic Particle Imaging**  
Ergor M., Olamat A., Dogan N., Bingölbali A.  
IEEE MAGNETICS LETTERS, vol.12, pp.1-5, 2021 (SCI-Expanded)
- X. **Optimization of Fill Factor Equation in Halbach Design**  
Balci F., Bingölbali A., Dogan N., Irfan M.  
Technical Physics Letters, vol.47, no.2, pp.158-161, 2021 (SCI-Expanded)
- XI. **Structural Transformations of Ni<sub>1-x</sub>Cu<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> Nanoparticles Depending on the Number of Cu Ions**  
Kamzin A. S., Valiullin A. A., Bingölbali A., Dogan N.  
PHYSICS OF THE SOLID STATE, vol.62, pp.1231-1239, 2020 (SCI-Expanded)
- XII. **The Magnetic Structure of NiFe<sub>2</sub>O<sub>4</sub> Nanoparticles**  
Kamzin A., Bingölbali A., Doğan N., Yeşil Z., Asiltürk M.  
Technical Physics Letters, vol.45, pp.1008-1011, 2019 (SCI-Expanded)
- XIII. **Hybrid Arc: Combining Forward IMRT and Double arc VMAT in Locally Advanced Rectum Cancer**  
Saglam Y., Bolukbası Y., Alpan V., Sezen D., Bingölbali A., Selek U.  
UHOD-ULUSLARARASI HEMATOLOJİ-ONKOLOJİ DERGİSİ, vol.29, pp.97-107, 2019 (SCI-Expanded)
- XIV. **Synthesis, Structure, and Magnetic Properties of Ni<sub>1-x</sub>Zn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> Nanoparticles**  
Dogan N., Bingölbali A., Arda L., Akcan D.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, pp.3611-3617, 2017 (SCI-Expanded)
- XV. **Hybrid Arc Could Combine the Benefits of IMRT and VMAT to Deliver a Fast, Conformal, Homogeneous Treatment in Non-Small Cell Lung Cancer without Limitations of Low Dose Bath: A Planning Study**  
Saglam Y., Bolukbası Y., Alpan V., Topkan E., Kirsner S., Ballo M., Chang J. Y., Bingölbali A., Selek U.  
UHOD-ULUSLARARASI HEMATOLOJİ-ONKOLOJİ DERGİSİ, vol.27, pp.161-170, 2017 (SCI-Expanded)
- XVI. **Comparison of Optimized Long Echo Time STEAM and PRESS Proton MR Spectroscopy of Lipid Olefinic Protons at 3 Tesla**  
Bingolbali A., Fallone B. G., Yahya A.  
JOURNAL OF MAGNETIC RESONANCE IMAGING, vol.41, pp.481-486, 2015 (SCI-Expanded)
- XVII. **Preparation, structure and magnetic characterization of Ni doped ZnO nano-particles**  
Dogan N., Bingölbali A., Arda L.

- JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.373, pp.226-230, 2015 (SCI-Expanded)
- XVIII. **Synthesis of magnetic multicomponent nanoparticles  $Cu_xNi_{1-x}Fe_2O_4$**   
Bingölbali A., Dogan N., Yesil Z., Asiltürk M.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.373, pp.222-225, 2015 (SCI-Expanded)
- XIX. **Development of a New Pre- and Post-Processing Tool (SADAPT-TRAN) for Nonlinear Mixed-Effects Modeling in S-ADAPT**  
Bulitta J. B., Bingolbali A., Shin B. S., Landersdorfer C. B.  
AAPS JOURNAL, vol.13, pp.201-211, 2011 (SCI-Expanded)
- XX. **Analysis of focused-beam powder X-ray diffraction resolution using doubly curved crystal optics**  
Bingolbali A., Macdonald C. A.  
JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol.42, pp.715-723, 2009 (SCI-Expanded)
- XXI. **Curved crystal x-ray optics for monochromatic imaging with a clinical source**  
Bingolbali A., Macdonald C. A.  
MEDICAL PHYSICS, vol.36, pp.1176-1183, 2009 (SCI-Expanded)
- XXII. **Quality assessment system for curved crystal X-ray optics**  
Bingolbali A., Macdonald C. A.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.267, pp.832-841, 2009 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Optimized Hybrid Arc for Improved Sparing of Organs at Risk: Balanced Combination of IMRT and VMAT in Prostate Cancer**  
Sağlam Y., Bölükbaşı Y., Bingölbali A., Selek U.  
European Archives of Medical Research, vol.39, no.2, pp.95-102, 2023 (Peer-Reviewed Journal)
- II. **Optimum Performance Review In Permanent Magnets For Imaging Systems**  
Balcı F., Doğan N., Bingölbali A.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.24, no.70, pp.37-44, 2022 (Peer-Reviewed Journal)
- III. **Investigation of magnetic properties of nickel doped ZnO nanoparticles via sol-gel method**  
Dogan N., Bingölbali A.  
Sakarya University Journal Of Science, vol.22, no.3, pp.862-869, 2018 (Peer-Reviewed Journal)
- IV. **Development of Polarized and Monochromatic X-ray Beams from Tube Sources**  
Schmitz R., Bingölbali A., Hussain A., Macdonald C. A.  
Proc SPIE, vol.7077, pp.1-9, 2008 (Conference Book)
- V. **Focused Beam Powder Diffraction with Polycapillary and Curved Crystal Optics**  
Bingölbali A., Zhou W., Mahato D. N., Macdonald C.  
Proc. of SPIE, vol.7077, pp.1-8, 2008 (Conference Book)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Development of Magnetic Particle Imaging (MPI) Scanner for Phantom Imaging of Tracer Agents**  
Irfan M., Doğan N., Mercan Dogan O., Bingölbali A.  
MMM-Intermag Conference , California, United States Of America, 10 - 14 January 2022, pp.535
- II. **Synthesis, Structural and Magnetic Characterization of Iron-Doped Manganese Oxide Nanoparticles**  
Köklü E., Doğan Bingölbali N., Bingölbali A.  
The 12th International Scientific Research Congress - Science and Engineering - (UBAK), Ankara, Turkey, 17 - 18 December 2021
- III. **Calculation of Stomach Wall Doses for Patients with Hepatocellular Carcinoma using Monte Carlo**

## Simulations

Yildirim O., Bingölbali A., Bozkurt A., Demirkol M. O.

Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.189

- IV. **Design of Nested Halbach Rings for Portable MRI Scanners**  
Ergor M., Doğan N., Bingölbali A.  
AAPM, Virginia, United States Of America, 25 - 29 July 2021, vol.48, no.6, pp.330
- V. **Magnetic Particle Spectrometer for Diagnosis of Magnetic Nanoparticles**  
Irfan M., Doğan N., Bingölbali A.  
AAPM, Virginia, United States Of America, 25 - 29 July 2021, vol.48, no.6, pp.393
- VI. **Effects of Permanent Magnet Shapes Used in Halbach Cylinders On FFL-MPI**  
Ergor M., Doğan N., Bingölbali A.  
AAPM, Virginia, United States Of America, 25 - 29 July 2021, vol.48, no.6, pp.109
- VII. **Position dependent response of Magnetic Nanoparticles using Magnetic Particle Imaging (MPI)**  
Irfan M., Dogan O. M., Dogan N., Bingölbali A.  
2020 Medical Technologies Congress, TIPTEKNO 2020, Antalya, Turkey, 19 - 20 November 2020
- VIII. **Investigation of Structural and Magnetic Properties of Nickel Doped Iron Oxide Nanoparticles Depending on the amount of Dope Values**  
Dogan N., Diktas N., Ersen C., Bingölbali A.  
6th ICNTC 2020 , İstanbul, Turkey, 17 - 18 October 2020, pp.99
- IX. **Accuracy of the Fill Factor Formula in the Halbach System**  
Balci F., Dogan N., Bingölbali A.  
Joint Annual AAPM | COMP, Vancouver, Canada, 12 - 16 July 2020, vol.47, no.6, pp.512
- X. **Using Multiple Cylindrical Halbach Rings in Magnetic Particle Imaging**  
Ergor M., Olamat A., Dogan N., Bingölbali A.  
Joint Annual AAPM | COMP, Vancouver, Canada, 12 - 16 July 2020, vol.47, no.6, pp.403
- XI. **Magnetic Particle Imaging (MPI) Scanner for 2D Phantom Imaging**  
Bingölbali A., Irfan M., Mercan Ö. D., Dogan N.  
TurkRAD 2019, Antalya, Turkey, 6 - 10 November 2019
- XII. **Developing Scanner for Magnetic Particle Imaging**  
Bingölbali A.  
TurkRAD 2019, Antalya, Turkey, 6 - 10 November 2019, pp.176
- XIII. **Modeling and Simulation of Wide Range Homogeneous Selection Field for 3D MPI Scanner**  
Bingölbali A., Irfan M., Mercan Dogan O., Dogan N.  
AAPM, Texas, United States Of America, 14 - 18 July 2019, vol.46, no.6, pp.141-142
- XIV. **Evaluation of FFP Performance in Halbach and Radial Permanent Magnet Systems**  
Bingölbali A., Balci F., Dogan N.  
IWPMI, New-York, United States Of America, 17 - 19 March 2019, pp.68-69
- XV. **Hybrid Arc: Combining forward IMRT and double arc VMAT in locally advanced rectum cancer**  
Saglam Y., Bolukbasi Y., Sezen D., Alpan V., BİNGÖLBALİ A., Selek U.  
ASTRO, San Antonio, Tx, United States Of America, 20 October 2018, vol.102
- XVI. **Effects of position of helmholtz coil pairs and number of coil turns on magnetic field homogeneity**  
Bingölbali A., Dogan N., Mecan Dogan O.  
ICSM, Antalya, Turkey, 29 April - 04 May 2018, pp.100
- XVII. **Analysis of Signal Generation from Field Free Point and Field Free Line for MPI**  
Dogan N., Unal I., Bingölbali A.  
ICSM , Antalya, Turkey, 29 April - 04 May 2018, pp.597
- XVIII. **Design a low noise amplifier to increasing signal-to-noise ratio (SNR) in magnetic particle imaging (MPI)**  
Bingölbali A., Dogan N.  
ICSM, Antalya, Turkey, 29 April - 04 May 2018, pp.161
- XIX. **Synthesis and Characterization of Zn<sub>0.1</sub>Co<sub>0.9</sub>Fe<sub>2</sub>O<sub>4</sub>**

- Bingölbali A., Dogan N., Asilturk M., Mikailzade F.  
IWMPI, Hamburg, Germany, 22 - 24 March 2018, pp.7-8
- XX. **Hibrit-Ark: Lokal İleri Rektum Kanserinde 3B-KRT ile çift ark VMAT kombinasyonu**  
Saglam Y., Bingölbali A., Selek U., Bolukbasi Y.  
The 16th Turkish Medical Physics (TMP) Conference, Antalya, Turkey, 28 October 2017, pp.83
- XXI. **(Co, Mn, Ni)Fe<sub>2</sub>O<sub>4</sub> magnetic nanoparticles and their performance for MPI**  
Dogan N., Bingölbali A.  
ICCMMS-2017, Adana, Turkey, 11 October 2017, pp.123
- XXII. **Researchers Interested in Fat Quantification by Proton Magnetic Resonance Spectroscopy**  
BİNGÖLBALİ A.  
ICCMMS-2017, Adana, Turkey, 11 October 2017, pp.34
- XXIII. **Hybrid Arc: Combination of IMRT and VMAT Techniques in the Treatment of Prostate Cancer- A Planning Study**  
Saglam Y., Bingölbali A., Bolukbasi Y., Alpan V., Selek U.  
2017 AAPM Annual Meeting, Colorado, United States Of America, 30 July 2017, vol.44, no.6, pp.2895
- XXIV. **Effects of number of magnet in Halbach magnet system for producing homogeneous magnetic field**  
Dogan N., Inci M., Bingölbali A., Koten H.  
IWMPI 2015, İstanbul, Turkey, 26 - 28 March 2015, pp.65
- XXV. **Comparison of some magnetic multicomponent nanoparticles for biomedical application**  
Dogan N., Bingölbali A., Asilturk M., Yesil Z.  
IWMPI 2015, İstanbul, Turkey, 26 - 28 March 2015, pp.68
- XXVI. **Magnetic multicomponent nanoparticles CuxNi1-xFe<sub>2</sub>O<sub>4</sub> for biomedical applications**  
Bingölbali A., Dogan N., Yesil Z., Asilturk M.  
MMM Conference, Colorado, United States Of America, 12 - 14 November 2013, pp.1-2
- XXVII. **Study of Cu-Mn ferrite nanoparticles for magnetic hyperthermia treatment**  
Bingölbali A., Dogan N., Yesil Z., Asilturk M.  
ICNM, İstanbul, Turkey, 27 - 29 September 2013, pp.1
- XXVIII. **Effects of Annealing Temperature on Microstructure and Magnetic Properties of Ni<sub>0.05</sub>Zn<sub>0.95</sub>Fe<sub>2</sub>O<sub>4</sub> Ultra Small Particles**  
Bingölbali A., Dogan N., Arda L.  
ICNM, İstanbul, Turkey, 27 - 29 September 2013, pp.1
- XXIX. **Optimized measurement of lipid olefinic protons by localized magnetic resonance spectroscopy at 3 T**  
Bingölbali A., Fallone B. G., Yahya A.  
COMP, Quebec, Canada, 20 - 22 September 2013, pp.1
- XXX. **Preparation, Structure, and Magnetic Properties of CuMnFe<sub>2</sub>O<sub>4</sub> NanoParticles for Magnetic Particle Imaging**  
Bingölbali A., Dogan N., Arda L., Asilturk M.  
IWMPI, California, United States Of America, 17 - 19 April 2013, pp.20
- XXXI. **Development and Evaluation of a New Efficiency Tool (SADAPT-TRAN) for Model Creation, Debugging, Evaluation, and Automated Plotting using Parallelized S-ADAPT, Perl and R**  
Bingölbali A., Landersdorfer C. B., Bulitta J. B.  
PAGE, Berlin, Germany, 20 - 23 June 2010, pp.3-4
- XXXII. **PK modeling: obtaining PK profiles despite sparse sampling**  
Bingölbali A., Landersdorfer C. B., Bulitta J. B.  
ECCMID, Vienna, Austria, 10 - 13 April 2010, pp.117-118
- XXXIII. **Analysis of Focused Beam Powder X-ray Diffraction using Curved Crystal Optics**  
Bingölbali A., Macdonald C. A.  
Denver X-ray Conference, Colorado, United States Of America, 17 - 20 August 2008, pp.34
- XXXIV. **Monochromatic Imaging with Clinical X-ray Sources**  
Bingölbali A., Macdonald C. A.

- TASSA Conference, Massachusetts, United States Of America, 19 - 20 April 2008, pp.1
- XXXV. **Focused beam powder diffraction with polycapillary and curved crystal optics**  
Bingölbali A., Zhou W., Mahato D. N., Macdonald C. A.  
3rd Conference on Advances in X-Ray/EUV Optics and Components, California, United States Of America, 11 - 13 August 2008, vol.7077
- XXXVI. **Development of Polarized and Monochromatic X-Ray Beams From Tube Sources**  
Schmitz R., Bingölbali A., Hussain A., Macdonald C. A.  
3rd Conference on Advances in X-Ray/EUV Optics and Components, California, United States Of America, 11 - 13 August 2008, vol.7077
- XXXVII. **Doubly Curved Crystal X-ray Optics Alignment System for Reproducible High Intensity Analysis**  
Bingölbali A., Macdonald C. A.  
Pascal Conference, New-York, United States Of America, 14 April 2007, pp.6
- XXXVIII. **Alignment System for Doubly Curved Crystal X-ray Optics-**  
Bingölbali A., Macdonald C. A.  
APS, Colorado, United States Of America, 18 - 22 March 2007, pp.100
- XXXIX. **Doubly Curved Crystal X-ray Optics Alignment System for High Intensity**  
Bingölbali A., Macdonald C. A.  
TASSA Conference, Connecticut, United States Of America, 17 - 18 March 2007, pp.10
- XL. **Doubly Curved Crystal Optics for Convergent Beam Powder X-ray Diffraction**  
Bingölbali A., Macdonald C. A.  
Pascal Conference, New-York, United States Of America, 20 May 2006, pp.1
- XLI. **Comparison of Polycapillary and Curved Crystal Optics for Convergent Beam Powder X-ray Diffraction**  
Bingölbali A., Zhou W., Macdonald C. A.  
APS, Maryland, United States Of America, 11 - 16 March 2006, pp.100

## Supported Projects

- BİNGÖLBALİ A., CANIM ATEŞ S., ÖZER S., DOĞAN N., Project Supported by Higher Education Institutions, Kobalt Ferrit Manyetik Nano Parçacıklarının Glioblastoma Hücre Hatları Üzerine Olan Sitotoksik Etkinin İncelenmesi ve Manyetik Parçacık Görüntüleme Performansının Değerlendirilmesi, 2021 - 2022
- Bingölbali A., Köklü E., TUBITAK Project, Investigation of the imaging performance of iron-doped manganese oxides in an experimental breast cancer model, 2021 - 2022
- Bingölbali A., Dogan N., TUBITAK Project, Development of New Medical Imaging Instrument Based On Magnetic Particle Imaging (MPI), 2017 - 2021
- Bingölbali A., Othman R., TUBITAK Project, Electrodeposited Zn-Fe Alloy: Influence of Deposition Parameters on Electrochemical and Magnetic Properties , 2019 - 2019
- Bingölbali A., Ergör M., TUBITAK Project, Magnet Design for Portable Magnetic Resonance Imaging and Magnetic Particular Imaging, 2018 - 2019
- BİNGÖLBALİ A., ASİLTÜRK M., DOĞAN BİNGÖLBALİ N., Project Supported by Higher Education Institutions, Çok Metal Atomlu Ferritlerin Medikal Uygulamalar İçin İncelenmesi, 2017 - 2019
- Bingölbali A., Derman S., Özçimen D., Öcal Sunguroğlu N., TUBITAK Project, Yıldız Teknik Üniversitesinin Biyomedikal malzemeler Ar-Ge Strateji Belgesi, 2017 - 2018
- BİNGÖLBALİ A., SAĞLAM Y., Project Supported by Higher Education Institutions, Farklı Anatomik Bölgelerin Radyoterapi Tedavisinde Hibrit Tedavi Tekniğinin Optimizasyonu, 2017 - 2018
- Bingölbali A., Dogan N., Asilturk M., Project Supported by Higher Education Institutions, Medikal Görüntüleme için Demir Oksit Tabanlı Manyetik Nano parçacıkların Üretimi ve Karakterizasyonu , 2016 - 2018
- Bingölbali A., Hatipoğlu G., TUBITAK Project, Hematoksilin eozin otomatik boyama cihazının üretilmesi, 2015 - 2015
- BİNGÖLBALİ A., Project Supported by Higher Education Institutions, Sanayi Ve Sağlık Uygulamalar İçin Magnet Tasarimi, 2013 - 2015



## Scientific Refereeing

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Yildiz Technical University, Turkey, July 2020

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Yildiz Technical University, Turkey, July 2020

Project Supported by Higher Education Institutions, BAP Research Project, Bursa Uludağ University, Turkey, June 2020  
Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Yildiz Technical University, Turkey, January 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, July 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, June 2019

TUBITAK Project, 1007 - Public Institutions Research and Development Projects DP, TÜBİTAK, Turkey, February 2017

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Yildiz Technical University, Turkey, January 2017

TUBITAK Project, 3001 - Initial R&D Projects Support Program, Yildiz Technical University, Turkey, March 2016

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, June 2015

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Yildiz Technical University, Turkey, June 2015

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Yildiz Technical University, Turkey, June 2015

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Yildiz Technical University, Turkey, January 2014

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Yildiz Technical University, Turkey, January 2014

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Yildiz Technical University, Turkey, January 2014

## Tasks In Event Organizations

Bingölbali A., IWMPPI, Scientific Congress, Germany, Eylül 2020

Bingölbali A., IWMPPI, Scientific Congress, New York, United States Of America, Mart 2019

Bingölbali A., IWMPPI, Scientific Congress, Hamburg, Germany, Mart 2018

Bingölbali A., IWMPPI, Scientific Congress, Praha, Czech Republic, Mart 2017

Bingölbali A., IWMPPI, Scientific Congress, Lübeck, Germany, Mart 2016

Bingölbali A., IWMPPI, Scientific Congress, İstanbul, Turkey, Mart 2015

## Metrics

Publication: 68

Citation (WoS): 219

Citation (Scopus): 221

H-Index (WoS): 6

H-Index (Scopus): 7

## Invited Talks

Yeni Tıbbi Görüntüleme Teknikleri: Laboratuvarıdan KliniĐe, Conference, TurkRAD, Turkey, November 2019  
Medikal Fizik Kariyerine Giriş, Seminar, Yıldız Teknik Üniversitesi, Turkey, May 2019

## **Awards**

Bingölbali A., YTÜ Akademik Ödülü (En Yüksek Bütçeli Proje Ödülü Dalında), Yıldız Teknik Üniversitesi, October 2018  
Bingölbali A., Şeref Listesi ve Bölüm Birincisi, Uludağ Üniversitesi, July 1998

## **Non Academic Experience**

Omega Advanced Solutions, Inc., Troy, NY, USA