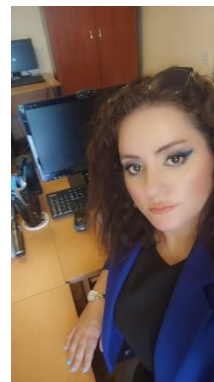


FARIDA N. TATARDAR

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WORK EXPERIENCE

Khazar University, School of Science and Engineering

Department: Physics and Electronics

Lecturer of Physics (Mechanics and Thermodynamics) and Communication systems, Telecommunication networks, Wireless communication, Optical communication, Physics for medicine and biology, General Physics, Physics (Mechanics, Molecular physics, Quantum physics, nuclear physics), Azerbaijan, 2014 (February) - present.

Khazar University, School of Science and Engineering

Head of Physics and Electronics Department – 2021 (present)

Azerbaijan National Academy of Sciences, Institute of Physics, “Physics of polymer nano- and active composites” laboratory. *Leading Researcher, Azerbaijan, 2008 (September) – 2022*

EDUCATION

- 2002-2006 **BSc in Physics**, Baku State University, Azerbaijan, Baku
- 2006-2008 **MSc in Physics**, Baku State University, Azerbaijan, Baku
- 2009-2013 **Ph.D. in Physics**, Institute of Physics, Azerbaijan, Baku
2017 **Associate professor**, Institute of Physics, Azerbaijan, Baku

CONFERENCES

1. International conference “Electroceramics XII” /Trondheim, Norway, 2010;
2. International conference “7th Asian Meeting on Ferroelectricity and 7th Asian Meeting on ElectroCeramincs” /Korea, 2010;
3. Congress and Exhibition on Advanced Materials and Processes “Materials Science and Engineering” / Darmstadt, Germany, 24-26 August 2010/;

4. The 10th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity, RCBJSF – 10” /Yokohamo, Japan 2012/;
5. 11th International Symposium on Ferroic Domains and Micro – to Nanoscopic Structures”, /Ekaterinburg, Russia, 2011;
6. 1st International scientific conference of young Scientists and specialists. The role of Multidisciplinary approach in solution of actual problems and applied sciences/ Baku, 2014/;
7. The 5th International Conference on Control and Optimization with Industrial Applications, 27-29 August 2015, Baku, Azerbaijan.
8. International conference, conference named after academician Latif Imanov, Shusha, September 2022
9. International Conference, Nakhchivan named after Emil Shakhtakhtinsky, October 2022
10. The 3rd Republican scientific conference dedicated to the 100th anniversary of the birth of National Leader Heyder Aliyev on the topic "Actual issues of personnel training in the field of energy", Hadrut, 17 November 2023

PUBLICATIONS

1. M. K. Kerimov, I.S. Sultanahmedova, I. A. Faradzhzade, F.N. Tatardar, H.S.Aliyev, F. F. Yahyaev. Varistor Effect in Polymer–Semiconductor Composites// Semiconductors, 2010, Vol. 44, No.7, p. 904–911 (Impact Factor: 0.739-SCI).
2. G. A. Mamedov, A. E. Panich, I.Sultanakhmedova , F.N. Tatardar, A.A.Mekhtili, F. F. Yakhyaev. Piezoelectric Composites with a High Stability of the Piezo-electric Modulus under the Action of Mechanical and Temperature Fields// Physics of the Solid State, 2010, Vol. 52, No.6, pp.1138–1145.
3. Kurbanov M.A., Aliyev G.G., Tatardar F.N., Sultanahmedova I.S., Mehdili. A.A. New Technologies of the Nanoparticle Immobilization in the Polymer Solutions for Preparation of the Polymer Nanocomposites// Azerbaijan journal of Physics Volume XVI, 2010 number 2, Series; En, June, p. 38 – 41.
4. F. F. Yakhyayev, I.S.Sultanakhmedova, F.N. Tatardar, G. Kh. Kulieva. A Device for the Complex Study of the Modes of Crystallization and Processing of Polymeric Composites under Electric Discharge Plasma and Temperature Effects // Surface Engineering and Applied Electrochemistry, 2010, Vol. 46, No. 2, pp. 160–164.
5. Мамедов Г.А., Курбанов М.А., Рамазанова И.С., Мехтили А.А., Алиев Х.С., Алиев Г.Г., Татардар Ф.Н., Оруджев И.Н., Кулиева Г.Х. Новая технология иммобилизации наночастиц в полимерной матрице гибридных пьезоэлектрических композитов // “Nanotexnologiyalar və onların texnikada tətbiqi” I Beynəlxalq Konfrans materialları, Bakı – 2010, s. 14 – 19.
6. Мамедов Г.А., Курбанов М.А., Татардар Ф.Н., Гочуева А.Ф., Мехтили А.А., Мусаева С.Н., Алиев Х.С., Рамазанова И.С., Оруджев И.Н., Юсифова У.В.. Технологические особенности создания нового класса пьезоэлектрических материалов на основе гибрида нано- и микропьезоэлектрических композитов // “Nanotexnologiyalar və onların texnikada tətbiqi” I Beynəlxalq Konfrans materialları, Bakı – 2010, s. 19 – 23.
7. Мамедов Г.А., Курбанов М.А., Кулиева Г.Х., Мехтили А.А., Рамазанова И.С., Гочуева А.Ф., Яхъяев Ф.Ф., Оруджев И.Н., Юсифова У.В. Диагностирование наноструктурирования полимерной фазы гибридных композитов применением метода термоактивационной спектроскопии // “Nanotexnologiyalar və onların texnikada tətbiqi” I Beynəlxalq Konfrans materialları, Bakı – 2010, s. 34 – 39.
8. Ф.Н. Татардар. Пьезоэлектрические материалы на основе гибрида матричных нано – и микропьезоэлектрических композитов // Научной конференции аспирантов

- национальной академии наук Азербайджана, Вак1 – «EIM» - 2010, с. 69 – 71.
9. Керимов М.К., Курбанов М.А., Мехтили А.А., Алиев Г.Г., Султанахмедова И.С., Татардар Ф.Н. и др. Пьезоэлектрические материалы на основе гибрида матричных нано- и микропьезоэлектрических композитов // ЖТФ., 2011, т. 81, вып. 8, с.127 – 134.
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 11. Kurbanov M.A., Bayramov A.A., Safarov N.A., Tatardar F.N., Mextili A.A., Sultanahmedova I.S. Hybrid piezoelectric composites with high electromechanical characteristics. US Patent No.8, 030,829 B1, 2011.
 12. M.A. Kurbanov, A.A. Bayramov, N.A. Safarov, F.N. Tatardar, I.S.Sultanakhmedova. Hybrid piezoelectric composites with high elektromechanical characterics // Scientific Israel – Technological Advantages, 2012, vol.14, no 1, p. 1 -7
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 15. Prof. Mirza Kurbanov, DrSc. Azad Bayramov, DrPh. Nuru Safarov, Irada Sultanahmedova, Farida Tatardar/ Formation of the piezoelectric and electret effect in composites of polymer-piezoceramic crystallized in a plasma of electric discharge. “International conference Electroceramics XII” Trondheim, Norway, 2010, s. 445
 16. Ch.O. Gajar, M.A. Kurbanov, A.A. Bayramov, I.S. Sultanahmedova, F.N. Tatardar, O.A. Aliiev, F.F. Yaxuyayev, Z.A. Dadashev/ Hybrid piezoelectric materials based on the polymer matrix nano- and microcomposites. 11th International Symposium on Ferroic Domains And micro –to Nanoscopic Structures. Ekaterinburg, Russia, 2012, pp. 183
 17. М. К. Керимов, А. А. Байрамов, Ф. Н. Татардар, Г. Х. Гулиева, О. А. Алиев. Влияние технологии модификации композитов полимер–пьезокерамика на них пьезоэлектрические свойства // Электронная Обработка Материалов №5 (49), 2013, с. 6 – 14
 18. А.А.Бауманов, F.N. Tatardar, F.F. Yaxuyayev, A.F. Nuraliyev A.A. Dadasgov, B. Kh. Khudayarov . Ultradisperse state of polymer phase as stabilizer in nanosized BaTiO₃ and polar and nonpolar polymer compositities// Azerbaijan Journal of Physics, Fizika, v.XX, n 1, Section: En, April, 2014, p.55-59
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34. B. Emdadi , A. Asimov , F. Tatardar. Graphene-Based Cathode Materials For Dye-Sensitized Solar Cells: A Review/ AJP FIZIKA 2022 volume XXVIII № 2, section En. <http://physics.gov.az/archen.html>
35. B. Emdadi, A. Asimov, F. Tatardar. QUANTUM DOTS DYE-SOLAR CELLS SENSITIZED: A REVIEW <http://www.physics.gov.az/archen.html>
36. F.N. Tatardar. New materials for the electromechanical and acoustoelectric transducers/ AJP FIZIKA 2022 section C: Conference L.M. Imanov http://www.physics.gov.az/index_main2.html
37. F.N. Tatardar. Effects Of Electric Discharge Plasma Treatment on The Polymer Composites/ AJP FIZIKA 2022 section C: Conference M.H. Shahtakhtinski http://www.physics.gov.az/index_main2.html
38. Bahruz Suleymanlia, , Enver Nakhmedov , Farida Tatardar, and Bilal Tanatar. The diagrammatic method of Berezinskii for one-dimensional disordered wire with spin-orbit interaction/ Physica E: Low-dimensional Systems and Nanostructures. 2023 <https://ui.adsabs.harvard.edu/abs/2023PhyE..14615550S/abstract>
39. F.N Tatardar, M.A Kurbanov, I.S Ramazanova, G.K Guliyeva, A. Nuraliyev, Z.A Dadashov. New materials for the electromechanical and acoustoelectric transducers/ Ferroelectrics. Volume 606, Issue 1. Page 30-38, 2023 <https://www.tandfonline.com/doi/abs/10.1080/00150193.2023.2189840>

LANGUAGES

- Azerbaijan (native)
- Russian (fluent)
- English (fluent)
- Turkish (good)

SELECTED HONORS and AWARDS

- **Honor Diploma, bachelor and master degrees-** Baku State University, Azerbaijan
- **PhD diploma-** Azerbaijan National Academy of Science, Azerbaijan
- **Associate Professor Academic title -** Azerbaijan National Academy of Science, Azerbaijan
- **Certificate, "Textbook Preparation and Evaluation",** Khazar University, 2015
- **Certificate, "Development of interactive teaching materials based on learning outcomes",** Khazar University, 2017-2018
- **Certificate, Appreciation** Dunya İB School Science Fair, 2022
- **Certificate, "Skills for the future" Mentorship, "Innovation Center" of the State Agency for Citizen Service and Social Innovation under the President of the Republic of Azerbaijan,** 2023

GRANT ACTIVITY

- Project No: EIF-BGM-2-BRFTF-1-2013-07/01/1-M-06. Title: Investigation of crazing effect in polyether fibbers and films. Approval data: 26.08.2013
- Project No: EIF-KETPL-2-2015-1(25)-56/01/1-M-01. Title: Low-dimensional spin-orbit effects and additive effects in semiconductors and Superconductors: Approval data: 28.10.2016.
- Science Fund Project Competition of the State Oil Company of the Republic of Azerbaijan - ET, September 2019 - September 2020, "Addition and correlation in graphene, fullerene and other topological nanostructures

MEMBERSHIP

- Member of Independent Trade Union, ANAS, Azerbaijan, 2008 - present

QUALIFICATIONS

- Office Programs, Windows 2000/XP, Microsoft Office 97/2000, 2003/2007, Internet Browsers, Adobe Reader
- Matlab, Origin 6.1, Origin 7.1, Origin 8.1

RESEARCH INTEREST

- Nanocomposites, Hybrid composites, Immobilization nanoparticles, Piezoelectric effects in composites, Crazing effect, Electro-acoustic and acoustic-electric transducer, fiber nanocomposites.