







PERSONAL INFORMATION **Muzaffar Kurbanov, Ph.D**



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-  Researchgate, LinkedIn, Telegram, Skype

Sex Male | Date of birth 21/09/1977 | Nationality Uzbekistan

WORK EXPERIENCE

Sep 2017 – Present

Dean of the Faculty of Technique

at the Urgench State University (UrSU)

<https://urdu.uz/en/site/facultyview?id=34>

The faculty prepares specialists in the following areas of education:

- *Operation and repair of vehicles;*
- *Technological machines and equipment;*
- *Architecture;*
- *Construction of buildings and structures.*

2013 – 2017

Associate Professor

Faculty of Physics and Mathematics, Department of Physics at the Urgench State University (UrSU), Uzbekistan

2010 – 2013

Assistant Professor

Faculty of Physics and Mathematics, Department of Physics at the Urgench State University (UrSU), Uzbekistan

2005 – 2010

Assistant Teacher

Faculty of Physics and Mathematics, Department of Physics at the Urgench State University (UrSU), Uzbekistan

2001 – 2002

Intern-Researcher

Faculty of Physics and Mathematics, Department of Physics at the Urgench State University (UrSU), Uzbekistan

1999 – 2001

Teaching master, senior laboratory assistant

Faculty of Physics and Mathematics, Department of Physics at the Urgench State University (UrSU), Uzbekistan

EDUCATION AND TRAINING

Sep. 1994 – Jul. 1999

Bachelor's Degree (BS) integrated Master Degree (MS)

Faculty of Physics and Mathematics, Department of Physics at the Urgench State University (UrSU), Uzbekistan

Thesis work on "Electronic Physics"

Sep. 2002 – Jul. 2005

Ph.D Degree Student

Faculty of Physics and Mathematics, Department of Physics at the Urgench State University (UrSU), Uzbekistan

Research topic: *“Dusting of LiF(100), Si(111), 3C-SiC crystals under the influence of single (Ar⁺) and polyatomic (SF₅⁺) ions”*

May 2012

Ph.D Degree Defence

The doctoral degree numbered D.015.23.01 was successfully defended under a specialized committee organized at the Academy of Sciences of the Republic of Uzbekistan in front of the Electronics and Nuclear Physics Institute named after U.O.Arifov.

PERSONAL SKILLS

Mother tongue(s) Uzbek

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Russian	C2	C2	C2	C2	C2
TORFL 4					
English	B1	B1	B1	B1	B1
IELTS 6					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good communication skills gained through completing a 72-hour training course on "Modern Management" and "Management Skills" at the Urgench regional branch of the Academy of Public Administration.

Organisational / managerial skills

- Leadership (currently responsible for a team of 200 people).

Job-related skills

- Actively participates in the open lessons held in the department, and their analysis.
- Creation of working programs for the department's subjects.
- Preparation of teaching and methodical manuals, lesson plans, handouts, and test sets.
- Writing reviews

Computer skills

- Good command of Microsoft Office™ tools
- Photoshop
- Excel
- MATLAB
- C++ Compiler
- LaTeX – A document preparation system

Other skills

- Football
- Table tennis

Driving license

B - category

PUBLICATIONS AND AWARDS

Research articles

- Surface and Interface Analysis, 2022, 54(10), pp. 1052–1059
“Influence of the irradiation of ions of different mass on the formation of surface defects of lithium fluoride thin films” DOI: [10.1002/sia.7130](https://doi.org/10.1002/sia.7130)
- Silicon, 2022, 14(9), pp. 4661–4667
“Controlling the Low-temperature Ionic Purification of a Silicon Surface by Electron Spectroscopy” DOI: [10.1007/s12633-021-01268-0](https://doi.org/10.1007/s12633-021-01268-0)
- Applied Solar Energy (English translation of Geliotekhnika), 2022, 58(1), pp. 116–120
“Thermotechnical and Adsorption Characteristics of the SrCl₂ Adsorbent for Ammonia Vapors in Solar Absorption Cycles”
- Radiation Effects and Defects in Solids, 2022
“Formation of defects on the surface of LiF crystals under irradiation with different ions mass”
- Thin Solid Films, 2021, 735, 138902
“Comparison of electron irradiation on the formation of surface defects in situ and post thin-film LiF/Si(111) deposition” DOI: [10.1016/j.tsf.2021.138902](https://doi.org/10.1016/j.tsf.2021.138902)
- Physics and Chemistry of Solid State, 2021, 22(2), pp. 255–259
“Inelastic energy loss of Ar ions scattered Al₂O₃ surface under grazing incidence” DOI: [10.15330/pcss.22.2.255-259](https://doi.org/10.15330/pcss.22.2.255-259)
- Journal of Surface Investigation, 2016, 10(1), pp. 245–249
“Procedure for determining defects in sputtered clusters of ionic crystals” DOI: [10.1134/S1027451016010328](https://doi.org/10.1134/S1027451016010328)
- Journal of Surface Investigation, 2013, 7(1), pp. 195-199
“Kinetics of aggregations of F₂, F₃, X, and colloid centers in LiF/Si(111) films upon low-temperature annealing” DOI: [10.1134/S1027451012120117](https://doi.org/10.1134/S1027451012120117)
- Poverkhnost Rentgenovskie Sinkhronnye i Nejtronnye Issledovaniya, 2003, (9), pp. 76–79
“Sputtering of the LiF crystal by an irradiation with mono- and polyatomic ions of Ar⁺ and SF₅⁺”
- Computational Materials Science, 2002, 24(1-2), pp. 111–116
“Study of ion scattering and dechanneling from surface defect structure by computer simulation” DOI: [10.1016/S0927-0256\(02\)00172-6](https://doi.org/10.1016/S0927-0256(02)00172-6)

Projects

“Study of scattering laws of low-energy ions from the surface of A³B⁵ type single crystals” (2017-2020)

Conferences

Republic Scientific and Practical Conference, “Semiconductors, Nanomaterials, and Problems of Photo-energy”, 9-10 December 2022, p71.

Republic Scientific and Practical Conference, “Problems and Prospects of Advanced Photonics”, 27-28 May 2022.

Seminars

The subject of Fundamentals of Radio-electronics, topic “Stabilization of current and voltage changes. Input and output controlled stabilizers” for 23 people at the Department of Physics and Mathematics at Urgench State University (2020).

Honours and awards

Certificate – for active participation in the SUMRICA School with the topic “Accessibility and Sustainable Urban Mobility”, held 28th of October – 01st of November 2019 in Urgench, Uzbekistan.

Memberships

Committee Member - Republic Scientific and Practical Conference “Semiconductors, Nanomaterials, and Problems of Photo-energy” held at Urgench State University during 9-10 December 2022.

Committee Member - Republic Scientific and Practical Conference “Problems and Prospects of Advanced Photonics” held at Urgench State University during 9-10 December 2022.

Committee Member - Scientific Council № PhD.03/29.12.2022.FM.55.07 for the award of the degree of Doctor of Philosophy (PhD) in the field of physics and mathematical sciences and technical sciences at Urgench State University.