

Author information



1. Full name:

Ormanbekova Ainur.

2. Position, academic degree, title:

Head of the department of "Automation and Robotics", Assistant Professor, PhD.

3. Education:

PhD	2019-2024	Lublin University of Technology, Poland, in the field of "Automation, Electronics, Electrical Engineering and Space Technologies"
Master's degree	2010-2012	JSC "Almaty Technological University", 6M070200 - "Automation and Control"
Bachelor	2006-2010	JSC "Almaty Technological University", 050702 - "Automation and Control"

4. Area and directions of research, including participation in scientific projects with a brief description of the research results:

Optical technologies and fiber-optic sensors; information technologies and smart cities; research in the field of sustainable development using digital tools and platforms.

5. List of the most significant publications (monographs, patents, developed standards):

1. Methods of Projecting Mode Amplitude Changes on the Wavelength Axis in Order to Determine the Bending Radius on the Basis of TFBG Grating Spectra, Sławomir Cieszczyk, Damian Harasim, **Ainur Ormanbekova**, Krzysztof Skorupski and Martyna Wawrzyk, Sensors 2021, 21, 7526. <https://doi.org/10.3390/s21227526>, Published: 12 November 2021, квартиль Q1;

2. Research active posterior rhinomanometry tomography method for nasal breathing determining violations, Oleg G. Avrunin, Yana V. Nosova, Ibrahim Younouss Abdelhamid, Sergii V. Pavlov, Natalia O. Shushliapina, Natalia A. Bouhlal, **Ainur Ormanbekova**, Aigul Iskakova, Damian Harasim, *Sensors*, 2021, 21(24), 8508, <https://doi.org/10.3390/s21248508>, квартиль Q1;
3. Smart traffic lights with video vision based on a control minicomputer in Kazakhstani megacities, Belgibaev B., Mansurova M., Abdrakhim S., **Ormanbekova A.**, *Procedia Computer Science*, 2024, 231, P. 792-797, процентиль 68, Q2;
4. Fiber-optic system for control of the orientation of objects in space, Oleksandr S. Hnatenko, Yuriy P. Machekhin, Victor Bilichenko, Valeriy Zarytskyi, Yaroslav Yaroslavskyy, Jacek Klimek, Kanat Mussabekov, Bakhyt Yeraliyeva, **Ainur Ormanbekova**, <https://doi.org/10.1117/12.3023026> *Proceedings of SPIE - The International Society for Optical Engineering*, 2023, процентиль 14, Q4;
5. Coding methods for parallel-hierarchical transformation of optical information, Tymchenko, L., Kokriatska, N., Tverdomed, V., Kisała, P., **Ormanbekova, A.**, <https://doi.org/10.1117/12.2660650> *Proceedings of SPIE - The International Society for Optical Engineering*, 2022, 12476, 124760T, процентиль 14, Q4;
6. Parallel implementation of evolutionary partial differential equations by collocation optical-electronic schemes, Bashkov, E.A., Dmitrieva, O.A., Huskova, N.H., ...Kotyra, A., **Ormanbekova, A.**, *Proceedings of SPIE - The International Society for Optical Engineering*, 2022, 12476, 1247612, процентиль 14, Q4;
7. Spectral polarimetry of laser images of biological fluid layers in the differentiation of necrotic conditions, Stashkevich, A.T., Dunaiev, O.V., Kvasniuk, D.V., **Ormanbekova, A.**, Tungatarova, A., *Proceedings of SPIE - The International Society for Optical Engineering*, 2021, 12040, 120400C, процентиль 14, Q4;
8. Temperature studies of optical absorption edge in $(\text{Ag}_2\text{S})_x(\text{As}_2\text{S}_3)_{1-x}$ ($x < 0.2$) superionic glasses, Studenyak, I.P., Shpak, O.I., Kranjcec, M., Zhunisova, U., **Ormanbekova, A.**, *Proceedings of SPIE - The International Society for Optical Engineering*, 2020, 11581, 115810T, процентиль 14, Q4;
9. Controlling of gold nanoparticles by the help of transverse spin momentum of evanescent waves in biomedical applications, Angelsky, O.V., Ivanskyi, D.I., Wójcik, W., **Ormanbekova, A.**, *Proceedings of SPIE - The International Society for Optical Engineering*, 2019, 11176, 111765H, процентиль 14, Q4;
10. Application of EMG-signal phase portraits for differentiation of musculoskeletal system diseases, Zhemchuzhkina, T.V., Zlepko, S.M., Nosova, T.V., Maciejewski, M., **Ormanbekova, A.**, *Proceedings of SPIE - The International Society for Optical Engineering*, 2019, 11176, 1117632, процентиль 14, Q4;
11. Model of electronic public health management on the example of the territorial community of Vinnytsia region, Nebava, M.I., Savina, N.B., Zayukov, I.V., Smolarz, A., **Ormanbekova, A.**, *Proceedings of SPIE - The International Society for Optical Engineering*, 2019, 11176, 1117634, процентиль 14, Q4;

12. Electromagnetic vibratory cavitator | (Elektromagnetyczny kawitator wibracyjny)., Aftanaziv, I.S., Shevchuk, L.I., Koval, I.Z., **Ormanbekova, A.**, Begaliyeva, K., Przegląd Elektrotechniczny, 2019, 95(4), P. 24-29, процентиль 20, Q4.

Has more than 18 copyright certificates.

6. Scientific internships:

09.05.2022-09.08.2022 - Scientific internship "500 scientists" under the "Bolashak" program

7. Achievements in research, teaching activities (awards):

05.04.2024 - "Best young scientist" of the Kazakh National University named after Al-Farabi.

8. E-mail address, contact details (tel.: work (ext.), cell.):

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