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Doctor of Philosophy in Technical Sciences (PhD), associate professor, currently works as the head of the department of "Light industrial technologies and equipment" Urgench State University named after Abu Rayhan Biruni

Kh.P.Jumaniyozov, born in 1983, graduated from the Urgench State University named after Abu Rayhan Biruni.

In 2020, he defended his PhD thesis on the topic "Development of technology for obtaining glass-crystal tiles based on the diabase on of the Arvaten deposit"

Kh.P. Jumaniyozov's scientific activities are closely related to chemistry, materials science, glass and ceramics. The results of his research have been presented at conferences in France, Germany, Bulgaria, Russia, Kazakhstan, Italy, and Romania.

Kh.P. Jumaniyozov's participation in projects

Project "Development of technology for processing kaolin from the Khojakol deposit to obtain metakaolin and technical alumina" Project implementation period - 2023-2025y.y

Project "Development of graphite-containing ceramic materials based on quartzgraphite schists of Rupat in Surkhandarya region ". Uzbekistan State Government funded research project. Project implementation period - 2012-2014 y.y

Project "Glass ceramic composite materials on the basis of rocks of Uzbekistan". Uzbekistan State Government funded research project. Project implementation period - 2009-2011y.y

Jumaniyozov Kh.P. is the author of 1 textbook, 2 lecture notes, 10 study guides, 2 patents and more than 60 scientific articles, including 15 articles abroad.

PUBLICATIONS

1. Goh, K. C., Kurniawan, T. A., **Jumaniyozov, K. P.,** Anouzla, A., Aziz, F., Ngoh, W. F., Abass, K. S., Khan, M. I., Zhang, D., Toh, T. C., Gui, H. C., Chong, W. S., & Dissanayake, K. K. (2025). *Harnessing floating solar power to decarbonize Southeast Asia's energy sector for carbon neutrality.* Solar Energy, Article 114079. https://doi.org/10.1016/j.solener.2025.114079 *(Q1 Journal, Elsevier)*
2. Kurniawan, T. A., Bustos-Terrones, Y. A., Loaiza, J. G., Dissanayake, K. K., Onn, C. W., Abass, K. S., **Jumaniyozov, K. P.**, Oktriono, K., Wong, W. K., Kusworo, T. D., Zhang, D., & Kusuma, H. S. (2025). *Applying nutrient recovery from unused wastewater to overcome fertilizer shortage for global food security.* Journal of Environmental Management, 394, 127543. https://doi.org/10.1016/j.jenvman.2025.127543 *(Q1 Journal, Elsevier)*
3. Goh, K. C., Kurniawan, T. A., **Jumaniyozov, K.,** Anouzla, A., Aziz, F., Ngoh, W. F., Abass, K. S., Khan, M. I., Zhang, D., Toh, T. C., Gui, H. C., Chong, W. S., & Dissanayake, K. K. (2025). *Strengthening urban resilience in China through underground infrastructures management: Addressing global climate challenges with technological solutions*. Deep Underground Science and Engineering. https://doi.org/10.1002/dug2.70069 (Q1 journal)
4. Goh, K. C., Kurniawan, T. A., Choo, W. O., **Jumaniyosov, K.,** Aziz, F., Anouzla, A., Ali, I., Khan, M. I., Alsultan, G. A., Zhang, D., Abass, K. S., Wong, H. Y., Islam, M. T., & Dissanayake, K. K. (2025). *Promoting landfill mining for sustainable resource recovery, circular economy, and climate mitigation: A review.* Frontiers in Environmental Science, 3, 1643195. https://doi.org/10.3389/fenvs.2025.1643195 (Q1 journal)
5. Abdullaev, M. Ch., Khomidov, F. G., & **Jumaniyozov, Kh. P.** (2027). *Development of the technology for obtaining sodium silicate from local raw materials of Uzbekistan.* KIMS-IMIO Scientific Journal, (3), 27–33. https://doi.org/10.31643/2027/6445.03 *(Q3 Journal, Elsevier)*
6. Anas, S. M., Kurniawan, T. A., & **Jumaniyozov, K. P.** (2024). *CEL-FE Numerical Analysis of Blastwave Pressure on Buried Pipeline Subjected to Subsurface and Surface.* E3S Web of Conferences, 563, 02016. https://doi.org/10.1051/e3sconf/202456302016
7. Kulkarni, S., Singh, D., Hussain, L., Balaji, V., Sharma, A., Kenjaeva, K., **Jumaniyozov, K.,** … (2024). *Finite element analysis of bonded, riveted and hybrid joints in glass-fibre/epoxy composite laminates for aircraft structure.* E3S Web of Conferences, 563, 02006. https://doi.org/10.1051/e3sconf/202456302006
8. Goh, K. C., Kurniawan, T. A., **Jumaniyozov, K. P.,** Anouzla, A., Aziz, F., Ngoh, W. F., Abass, K. S., Khan, M. I., Zhang, D., Toh, T. C., Gui, H. C., Chong, W. S., & Dissanayake, K. K. (2025). *Harnessing floating solar*

power to decarbonize Southeast Asia's energy sector for carbon neutrality. Solar Energy, Article 114079. https://doi.org/10.1016/j.solener.2025.114079

9. Anas, S. M., Kurniawan, T. A., **Jumaniyozov, K. P.,** & Salimi, K. (2025). *Optimization of mechanical behaviour of hybrid adhesive-riveted joints using finite element simulation.* E3S Web of Conferences, 587, 03016. https://doi.org/10.1051/e3sconf/202458703016
10. Kurniawan, T. A., **Jumaniyozov, K. P.,** Anas, S. M., & Salimi, K. (2024). *Application of hybrid bonding technologies to enhance structural performance in composite assemblies.* E3S Web of Conferences, 563, 02028. https://doi.org/10.1051/e3sconf/202456302028