Information about the author



1. Surname, first name:

Alimkulova Jamila.

2. Position, academic degree, title:

lecturer, master of technical sciences.

3. Education:

- 1999-2004, Kazakh national technical university named after K.I. Saptpaev, faculty of "Chemical technology and printing", Almaty;

- 2005-2008, Almaty technological university, postgraduate studies in the specialty "Chemical technology of organic substances", Almaty;

- 2013-2015, Kazakh national technical university named after K.I. Satpayev, master's degree in specialty 6M072000 - "Chemical technology of inorganic substances", Almaty.

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

Field and directions of research:

- chemical technology.

Participation in scientific projects:

- initiative research work, state registration № 0120RKI0020, "Study of natural sorbents for wastewater treatment from heavy metals and oil products", 15.01.2021.

Results:

the results of the performed studies can be used in the development of advanced sorption technologies for the purification of wastewater from industrial enterprises from heavy metal ions. A literature review of this work was carried out, the patterns of sorption of heavy metal ions were considered, the sorption properties of Jerusalem artichoke were studied under static and dynamic conditions on model solutions containing copper, zinc, cadmium, and the main indicators of the adsorption activity of the sorbent were determined, and the prospects for the

practical application of Jerusalem artichoke for cleaning and post-treatment of real wastewater from industrial enterprises from heavy metal ions.

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

1) Ecological assessment of the effect of sodium chloride on the physiology of wheat culture. Y.// Bulletin of the Almaty Technological University - 2020. - № 1. - P. 77-82; G.S. Sultangazieva G.S., Berkinbaeva A.S., Alimkulova Zh.D.;

2) Study of methane oxidation on polyoxide catalysts. Science news of Kazakhstan, scientific and technical journal. P.54-62 Almaty 2021. Abilkasova S.O., Kalimoldina L.M., Shaykhova Zh.E.;

3) Optimal ways of using soil contaminated with oil. Innovative ways to solve urgent problems of the development of the food and petrochemical industry, international scientific and practical conferences, p. 456-458. Bukhoro 2020 Shaikhova Zh. E., Kalimoldina L.M., Alimkulova Zh.D.;

4) Methodological bases for improving the assessment of agricultural lands of various categories of agricultural structures. Proceedings of the VI International Scientific and Practical Conference "Integration of the scientific community in the global challenges of our time" February 10-12, 2021 Yokohama (Japan) 53-60. Sultangazieva G.S., Shaykhova Zh.E., Abilkasova S.O., Kalimoldina L.M., Egeubaeva S.S.;

5) Influence of mineral fertilizers on soil fertility, productivity and soil quality. Scientific basis for improving the efficiency of agricultural production. V International Scientific and Practical Conference dedicated to the 205th anniversary of the founding of the faculty November 25-26, 2021, Kharkiv, pp. 222-223. Sultangazieva G.S., Shaikhova Zh.E., Kalimoldina L.M., Alimkulova Zh.D., Amirkhan A.A.;

6) Assessment of the ecological state of surface water resources in the Alakol region. Materials of the international scientific and practical conference "Innovative development of food, light industry and hospitality industry" October 25-26, 2018, p. 42-44. Abilkasova S.O., Almagambetova S.T., Alimkulova Zh.D.;

7) Enrichment of flour in order to improve the quality of confectionery. Materials of the international scientific and practical conference "Innovative development of the food, light industry and hospitality industry" October 25-26, 2018, p. 216-218. Zhumadillaev A. M., Asilova G. M., Alimkulova Zh.Zh.

6. Scientific internships:

- Tomsk Polytechnic University. National research Tomsk polytechnic university. Institute of natural resources. "The use of educational and laboratory complexes" "Chemistry" to perform laboratory work on the discipline "Physical Chemistry" on October 26, 2015 to November 8, 2015, Tomsk.

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