DEPARTMENT "CHEMISTRY, CHEMICAL TECHNOLOGY AND ECOLOGY"

Indicators of the Hirsch index of the teaching staff for 2021-2022		
No.	**Title of submitted work**	**Full name of the teacher**
1	Hirsch index - 2	Kolpek A.
2	Hirsch index - 1	Omarov Kh.B.
3	Hirsch index - 1	Mamytova N.S.
4	Hirsch index - 1	Nurtai Zh.T
5	Hirsch index - 3 (according to Scopus **, Author ID in Scopus** 56195582800); Hirsch index - 3 (according to **Web of Science , Researcher ID Web of Science** AAR-2924-2020); **ORCID ID :** 0000-0001-9016-3062	Kazankapova M.K.
6	Hirsch index - 3	Nurgalyiev N.U
Scientific publications of the teaching staff in the international scientific publications Scopus and Web of science for 2021-2022		
1	ASSESSMENT OF HYDROPHYSICAL AND HYDROCHEMICAL FEATURES OF WATER BODIES: A CASE STUDY OF LAKE IMANTAU, KAZAKHSTAN. Water Conservation and Management (WCM) 5(2) (2021). P 88-93. DOI: http://doi.org/10.26480/wcm.02.2021.8 Percentile in category Environmental Science: Water Science and Technology - 78%.	Zhumay Y, Khussainov A , Kurmanbayeva A, Skipping L, Onerkhan G.
2	Production of electrolytic copper from Zhezkazgan Processing Plant tailings leaching solutions using a hydro-impulse discharge. Bulletin of the University of Karaganda-Chemistry . - 2021. - No. 4 (104). – P. 128 - 137. ISSN 2518-718X. DOI 10.31489/2021 Ch 4/128-137. **(web of science)**	Omarov Kh.B. _ et al.
3	Optimization of the parameters of a laser-spark emission spectrometer using probabilistic-deterministic planning of an experiment. Factory laboratory. material diagnostics. - 2021. -V.87, No. 5. -p.14-19. DOI: https://doi.org/10.26896/1028-6861-2021-87-5-14-19 (Journal included in Russian Science Citation Index on the Web platform of science)	Omarov Kh.B. and etc.
4	Study of copper leaching from the tailings of the Karagaily concentrating factory using and electric hydropulse discharge. Journal of the Serbian Chemical Society. -2022. -87(0), -pp.1-13 . DOI: 10.2298/JSC210622005B **(Scopus)**	Omarov Kh.B. _ et al.
5	STUDY OF THE EFFECT OF MINERAL AND ORGANIC SUBSTRATES ON THE GROWTH OF RICE ORYZA SATIVA L. IN HYDROPONICS. Bulletin of science. Kazakh Agrotechnical University named after S.	Mamytova N.S.

	Seifullin No. 1 (112), 2022 P. 269-27 6. **(** KOKSON **)**	
6	Development of technology for the production of composite materials using industrial waste Journal "Proceedings of the University", Karaganda Technical University, series " Geotechnology and life safety", issue May 2022, KKSON	Nurtay Zh.T., PhD
7	Development of technology for the production of composite materials using industrial waste Journal "Proceedings of the University", Karaganda Technical University, series " Geotechnology and life safety", issue May 2022, KKSON	Zhunussova E.B., Ph.D.
8	Development of technology for the production of composite materials using industrial waste Journal "Proceedings of the University", Karaganda Technical University, series " Geotechnology and life safety", issue May 2022, KKSON	Takirova A.Kh.
9	Evaluation of macroparticles and nanoparticles of zinc and zinc oxide's toxicity based on the artemia salina model. Bulletin of the Karaganda university biology. medicine. geography . series No. 1(105)/2022 . r . 96-102. KKSON	Serikbai AT, Aitkulov AM, Zeynidenov A. K ., Kystaubaeva ZT
10	Synthesis of Graphene-Containing Nanomaterials Based on a Carbon Product Using Electric Arc Discharge // Solid Fuel Chemistry , 2021, 55(6), p . 380–390. **DOI:** 10.3103/S0361521921060057 (IF- 0.937 , quartile -Q4, CiteScore-1.4, percentile -36).	Yermagambet B.T , Kazankapova MK., Kasenov B.K , Aitmagambetova A.Z , Kuanyshbekov E.E
11	Physicochemical and Electrophysical Properties of Carbon Materials Based on Humic Acids // Solid Fuel Chemistry, 2021, 55(1), 41–46. DOI: 10.3103/S036152192101002X (IF- 0.937 , quartile -Q4, CiteScore-1.4 , percentile -36).	Yermagambet BT, Kasenov BK, Kazankapova MK, Kassenova Zh.M., Kuanyshbekov , EE, Nauryzbaeva , AT
12	Physicochemical and electrophysical properties of a composite material based on carbon nanofiber and nanoiron obtained from coal tar // Chemistry of Solid Fuels, 2022, no. 3, p. 17–27. DOI: 10.31857/S0023117722030021 (IF- 0.937 , quartile -Q4, CiteScore-1.4 , percentile -36).	B.T. Yermagambet , M.K. Kazankapova , B.K. Kasenov , J.M. Kasenova , A.T. Nauryzbayeva , E.E. Kuanyshbekov
Scientific publications and teaching aids for faculty for 2021-2022		
1	Monograph " Research on the patterns of self-purification of surface waters by hydrobionts " 2022 - 129 p. ISBN 978-601-08-1922-1	Mamytova N.S.
2	Textbook " Biochemistry and ecotoxicology " 2022 - 98 p. ISBN 978-601-08-1745-6	Akhaeva A.A., Karibaeva M.K., Mamytova N.S.
3	International scientific and practical conference on the topic	Nurtay Zh.T., PhD

	"Science, technology and innovation" , April 08, 2022, Nur-Sultan "Innovative ways to isolate sulfur compounds from oil and gas"	
4	International scientific and practical conference on the topic "Science, technology and innovation" , April 08, 2022, Nur-Sultan «Perspective methods of purification of mercaptan-containing oils Western Kazakhstan"	Nurtay Zh.T., PhD
6	International scientific and practical conference on the topic "Science, technology and innovation" , April 08, 2022, Nur-Sultan "Innovative ways to isolate sulfur compounds from oil and gas"	Zhunussova E.B., Ph.D.
7	International scientific and practical conference on the topic "Science, technology and innovation" , April 08, 2022, Nur-Sultan «Perspective methods of purification of mercaptan-containing oils Western Kazakhstan"	Zhunussova E.B., Ph.D.
8	Textbook " Technology of processing hydrocarbons ". ISBN Petropavlovsk: IPO NKGU im. M. Kozybaeva , 2021. 1 99 p., 11 copy, language : Kazakh	Zhumabekova A.K.
9	Production of carbon nanofibers based on coal tar and polyacryonitrile by electrospinning method // News of the national academy of sciences of the republic of Kazakhstan, series chemistry and technology, no. 2 (446). 2021. R. _ 72 - 80. (COXON , IF-0.053).	Yermagambet B.T, Kazankapova MK, Nauryzbayeva AT, Kassenova Zh.M.
10	Preparation of a composite based on humic acid and silicon oxide // Reports of the national academy of sciences of the republic of Kazakhstan, No. 5 (339). 2021. R. _ 119 - 125. (COXON , IF-0.087).	Yermagambet B.T, Kazankapova M.K, Kassenova Zh.M. _
11	Electrophysical characteristics of an activated composite based on humic acid and microspheres // Sixth International Conference of the CIS IHSS on humic innovative technologies " Humic substances and ecoadaptive technologies" (HIT-2021) September 25–29, 2021, Moscow, Russia. – P.76.	Yermagambet B.T, Kasenov B.K, Kazankapova M.K, Kasenova Zh.M ., Kuanyshbekov E.E.
12	Obtaining composite adsorbents based on humic acid and silicon oxide // X International Russian-Kazakhstan Symposium “ Coal chemistry and ecology of Kuzbass Kemerovo. - July 12-13. – 2021.- P.44.	Kazankapova M.K. , Yermagambet B.T., Kasenova Zh.M. , Baylina G.

13	Electrophysical characteristics of an activated composite based on humic acid and microspheres // Sixth International Conference of the CIS IHSS on humic innovative technologies " Humic substances and ecoadaptive technologies" (HIT-2021) September 25–29, 2021, Moscow, Russia. – P.76.	Yermagambet BT, Kasenov BK, Kazankapova MK, Kasenova Zh.M ., Kuanyshbekov EE
14	Chemistry of complex compounds	A.Kolpek
15	Mathematical description of chemical-technological processes. Monograph. Polygraphy Z - PRINT , 2021. 131 p. ISBN 978-601-263-596-6	Nurgalyiev N.U.
Patents of the teaching staff for 2020-2022		
1	Utility model patent “Disk-diffusion method for determining the resistance of microorganisms to antibacterial drugs for monitoring water bodies” No. 5248 dated February 21, 2020	Mamytova N.S.
2	Patent of the Republic of Kazakhstan for the invention No. 0451.1 dated 07/03/2021 Method for One-Stage Synthesis of Biodegradable Chitosan Hydrogel with Embedded Mineral and Or Organic Fertilizers	Zhatkanbaev E.E. Kolpek A.
3	Patent of the Republic of Kazakhstan for the invention No. 34824 dated 01/08/2021 Method for obtaining organo-mineral fertilizer from bird droppings	Yermagambet B.T., Kazankapova M.K. , Nurgaliev N.U., Kasenova Zh.M.,
4	Republic of Kazakhstan for invention No. 35518 dated February 18, 2022 " Method for producing carbon nanofibers from humic acid by electrospinning ".	Yermagambet B.T., Kazankapova M.K. , Nauryzbayeva A.T., Kasenova Zh.M.
5	Method for obtaining organic-mineral fertilizer from bird droppings. Patent of the Republic of Kazakhstan for invention No. 34834. Registered in the State Register of Inventions of the Republic of Kazakhstan on 01/08/2021.	Yermagambet B.T., Nurgaliyev N.U., Kazankapova M.K. Kasenova Zh.M.
6	A method for obtaining humic substances from oxidized weathered and brown coals. Patent of the Republic of Kazakhstan for invention No. 35020. Registered in the State Register of Inventions of the Republic of Kazakhstan on April 23, 2021.	Yermagambet B.T., Kazankapova M.K. Kasenova Zh.M., Nurgaliyev N.U.,
7	The method of processing ash and slag waste by electric discharge. Patent of the Republic of Kazakhstan for invention No. 34099. Registered in the State Register of Inventions of the Republic of Kazakhstan on January 8, 2020 .	Yermagambet B.T., Nurgaliyev N.U., Kazankapova M.K. Kasenova Zh.M.

8	The method of obtaining gas from the remains of urban wastewater. Patent of the Republic of Kazakhstan for invention No. 34102. Registered in the State Register of Inventions of the Republic of Kazakhstan on January 8, 2020 .	Yermagambet B.T., Kazankapova M.K. Nurgaliyev N.U., Kasenova Zh.M.
9	A method for producing smokeless fuel from high-ash coals. Patent of the Republic of Kazakhstan for invention No. 34112. Registered in the State Register of Inventions of the Republic of Kazakhstan on 01/09/2020 .	Yermagambet B.T., Kazankapova M.K. Kasenova Zh.M. Nurgaliev N.U.,
10	The method of underground gasification of coal by electric discharge Patent of the Republic of Kazakhstan for utility model No. 4737. Registered in the State Register of Utility Models of the Republic of Kazakhstan on February 27, 2020 .	Yermagambet B.T., Kasenova Zh.M. Nurgaliyev N.U., Kazankapova M.K.
11	A method for producing smokeless fuel briquettes from sulfurous coals. Patent of the Republic of Kazakhstan for invention No. 34179. Registered in the State Register of Inventions of the Republic of Kazakhstan on February 17, 2020 .	Yermagambet B.T., Kazankapova M.K. Nurgaliyev N.U., Kasenova Zh.M.
12	Processing of ash from coal combustion by electrophysical method. Patent of the Republic of Kazakhstan for utility model No. 5267. Registered in the State Register of Inventions of the Republic of Kazakhstan on August 7, 2020 .	Yermagambet B.T., Nurgaliyev N.U., Kazankapova M.K. Kasenova Zh.M.
Holders of state awards, awards and scholarships for faculty for 2019-2022		
1	Corresponding member of the Russian Academy of Natural Sciences in the section "Environmental technologies" from 04/20/2022	Mamytova N.S.
Research work of students for 2020-2022		
1	“Biotechnology of soils contaminated with petroleum products Beisenbek Nurila, 2nd year student of the specialty "6B05213 - Ecology"	Head - Onerkhan.G
2	In the competition of scientific works of students among universities "Culture and science in the context of spiritual revival", on the theme "Spiritual revival and archeological values" student Amanzhan Gasyrbek HTOV-191 type, 13.11.2020. Turan-Astana University.	Head - Khamit A.Zh
3	Distribution and environment habitation mountain sheep in Kazakhstan Rashitova S. , student of group E - 181, International scientific and practical conference "Science, technology and innovation", April 2022	head - Kystaubayeva Z.T.
4	Use of industrial waste for the development of flood protection structures for rescue from natural disasters. Iskander Salima, 2nd year	Head - Nurtay Zh.T

	student of KazUTB, specialty "Safety of life and protection of the environment." 5B073100 "Safety of life activity and protection of the environment" in KU them. Korkyt Ata. 2022	
5	Analysis of the effect of static electricity on fire safety in oil and gas complexes. Baimyrzayeva aruzhan is a 2nd year student of KazUTB, majoring in oil and gas business. 5B100100 - "fire safety" in KarTU. 2022	Head - Nurtay Zh.T
6	Laureate of the competition of the project "IV International Book Edition", "Best Young Scientists - 2021" among the scientific and educational institutions of the Commonwealth of Independent States (awarded with a diploma of the II degree and a medal). Amanzhan G.A., 3rd year student, specialty Chemical technology of organic substances".	Supervisor - Nurgaliyev N.U.
7	Research work of students (within the framework of the competition of scientific works of students from the Ministry of Education and Science of the Republic of Kazakhstan 2021-2022): "Modeling the process of layered gasification of coal deposits in Kazakhstan." Kalimullina A.M., 3rd year student, specialty Ecology.	Supervisor - Nurgaliyev N.U.
8	Research work of students (within the framework of the competition of scientific works of students from the Ministry of Education and Science of the Republic of Kazakhstan 2021-2022): "Optimization of the process of processing coal ash to obtain silicon dioxide." Ormantaev M.K., 3rd year student, Mining.	Supervisor - Nurgaliyev N.U.