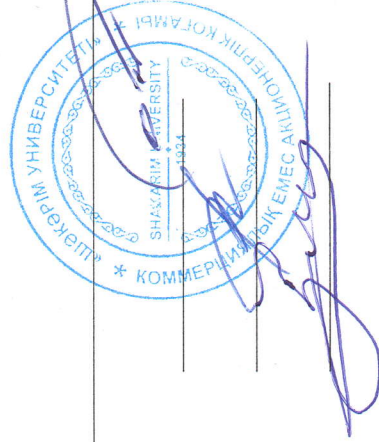


СПИСОК НАУЧНЫХ ТРУДОВ

соискателя Мұратхана Марата

по образовательной программе 8D07202 – «Пищевая безопасность», НАО "Университет имени Шакарима города Семей"

№	Наименование	Печатный или на правах рукописи	Издательство, журнал, название, номер	Объем в п.л. или стр.	Ф.И.О. соавторов
1	2	3	4	5	6
Международные рецензируемые научные журналы с ненулевым импакт фактором (базы данных Scopus и Web of Science)					
1	Development and Optimization of Edible Antimicrobial Films Based on Dry Heat-Modified Starches from Kazakhstan	печат.	FOODS, Volume 14, Issue 11, 2025, ISSN 2304-8158, https://doi.org/10.3390/foods14112001	29	Zhainagul, Kakimova; Svetlana, Kamanova; Toimbayeva, Dana; Temirova, Indira; Tazhina, Sayagul; Khamitova, Dina; Saule, Saduakhasova; Tultabayeva, Tamara; Bulashev, Berdibek; Ospankulova, Gulnazym
2	Comparable Analysis of Natural and Modified Starches from Kazakhstan: Physicochemical Properties, Applications, and Insights on Biodegradable Films	печат.	APPLIED SCIENCES-BASEL, Volume 15, Issue, 2025, ISSN 2076-3417, https://doi.org/10.3390/app15073938	16	Zhainagul, Kakimova; Yermekov, Yernaz; Svetlana, Kamanova; Toimbayeva, Dana; Temirova, Indira; Amirsana, Kiykbay; Khamitova, Dina; Zharykbasov, Yerlan; Sugirbay, Adilet; Saule, Saduakhasova; Ospankulova, Gulnazym



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3	Sodium alginate/low methoxyl pectin composite hydrogel beads prepared via gas-shearing technology for enhancing the colon-targeted delivery of probiotics and modulating gut microbiota	печат.	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Volume 300, Issue, 2025, ISSN 1879-0003, https://doi.org/10.1016/j.ijbiomac.2025.140375	18	Zhang, Fan; Zheng, Xujiao; Ma, Ying; Nan, Wuqiang; Wu, Wenjing; Chu, Ziru; Sun, Xin; Huang, Jihong; Yue, Fangfang; Wang, Xin; Lu, Xin
4	Saccharide mapping as an extraordinary method on characterization and identification of plant and fungi polysaccharides: A review	печат.	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Volume 275, Issue, 2024, ISSN 1879-0003, https://doi.org/10.1016/j.ijbiomac.2024.133350	16	Ma, Yuntian; Zhang, Lichen; Ma, Xiaoyu; Bai, Ke; Tian, Zhuoer; Wang, Zhangyang; Wang, Xin; Lu, Xin; Liu, Manshun
5	pH-responsive PVA/konjac glucomannan/functional liposome terpolymer composites: Spotlight on its structure-performance, functionality, barrier properties, controlled-release behavior, biodegradability, and its intelligent preservation role for food	печат.	FOOD PACKAGING AND SHELF LIFE, Volume 42, Issue, 2024, ISSN 2214-2894, https://doi.org/10.1016/j.fpsl.2024.101250	26	Liang, Wei; Ge, Xiangzhen; Lin, Qian; Niu, Li; Zhao, Wenqing; Liu, Xinyue; Guo, Shuangfeng; Li, Wenhao
6	Electron beam pre-irradiation enhances substitution degree, and physicochemical and functional properties of carboxymethyl peanut shell nanocellulose	печат.	INDUSTRIAL CROPS AND PRODUCTS, Volume 209, Issue, 2024, ISSN 1872-633X, https://doi.org/10.1016/j.indcrop.2024.118035	28	Zhang, Xiuyun; Xi, Changyu; Guo, Shuangfeng; Yan, Mengting; Lu, Yifan; Sun, Zhuangzhuang; Ge, Xiangzhen; Shen, Huishan; Ospankulova, Gulnazym; Kh, Kakimova Zhainagul; Hu, Yayun; Li, Wenhao

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7	pH-responsive liposomes for controlled release of <i>Alpinia galanga</i> essential oil: Investigating characteristics, stability, control release behavior, and functionality	печат.	INDUSTRIAL CROPS AND PRODUCTS, Volume 209, Issue, 2024, ISSN 1872-633X, https://doi.org/10.1016/j.indcrop.2023.117978	25	Liang, Wei; Ge, Xiangzhen; Lin, Qian; Zhao, Wenqing; Niu, Li; Li, Wenhao
8	Ternary composite degradable plastics based on <i>Alpinia galanga</i> essential oil Pickering emulsion templates: A potential multifunctional active packaging	печат.	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Volume 257, Issue, 2024, ISSN 1879-0003, https://doi.org/10.1016/j.ijbiomac.2023.128580	22	Liang, Wei; Ge, Xiangzhen; Lin, Qian; Niu, Li; Zhao, Wenqing; Li, Wenhao
9	Understanding the improvement of sorghum starch acid hydrolysis modification by E-beam irradiation: A supramolecular structure perspective	печат.	FOOD CHEMISTRY, Volume 437, Issue, 2024, ISSN 1873-7072, https://doi.org/10.1016/j.foodchem.2023.137820	26	Liang, Wei; Lin, Qian; Zeng, Jie; Gao, Haiyan; Li, Wenhao
10	A green versatile packaging based on alginate and anthocyanin via incorporating bacterial cellulose nanocrystal-stabilized camellia oil Pickering emulsions	печат.	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Volume 249, Issue, 2023, ISSN 1879-0003, https://doi.org/10.1016/j.ijbiomac.2023.126134	16	Li, Shiqi; Wang, Xingnan; Luo, Yong; Chen, Zilin; Yue, Tianli; Cai, Rui; Zhao, Zidan; Wang, Zhouli
11	Electron beam irradiation modification of ultra-high pressure treated broad bean starch: Improvement of multi-scale structure and functional properties	печат.	FOOD CHEMISTRY, Volume 427, Issue, 2023, ISSN 1873-7072, https://doi.org/10.1016/j.foodchem.2023.136690	22	Zhao, Wenqing; Liang, Wei; Ospankulova, Gulnazym; Kh, Kakimova Zhainagul; Li, Wenhao
12	Comparison Study of DBD Plasma Combined with E-Beam Pre- and Post-treatment on the Structural-Property Improvement of Chinese Yam Starch	печат.	FOOD AND BIOPROCESS TECHNOLOGY, Volume 16, Issue 10, 2023, 2287-2303, ISSN 1935-5149, https://doi.org/10.1007/s11947-023-03024-1	18	Liang, Wei; Liu, Xinyue; Zheng, Jiayu; Zhao, Wenqing; Zheng, Yue; Ge, Xiangzhen; Shen, Huishan; Ospankulova, Gulnazym; Zhainagul



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					Kh, Kakimova; Li, Wenhao
13	Multiscale structure-property relationships of oxidized wheat starch prepared assisted with electron beam irradiation	печат.	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Volume 235, Issue, 2023, ISSN 1879-0003, https://doi.org/10.1016/j.ijbiomac.2023.123908	16	Shen, Huishan; Yan, Mengting; Liu, Yili; Liu, Xinyue; Ge, Xiangzhen; Ospankulova, Gulnazym; Zhang, Guoquan; Li, Wenhao
14	Investigating the role and mechanism of water in E-beam modified sweet potato starch: Multi-scale structure, physicochemical properties, and in vitro digestibility	печат.	FOOD HYDROCOLLOIDS, Volume 137, Issue, 2023, ISSN 1873-7137, https://doi.org/10.1016/j.foodhyd.2022.108433	26	Liang, Wei; Zhao, Wenqing; Liu, Xinyue; Zheng, Jiayu; Sun, Zhuangzhuang; Ge, Xiangzhen; Shen, Huishan; Ospankulova, Gulnazym; Li, Wenhao
15	Electron beam irradiation application for improving the multiscale structure and enhancing physicochemical and digestive properties of acetylated naked barley	печат.	FOOD CHEMISTRY, Volume 404, Issue, 2023, ISSN 1873-7072, https://doi.org/10.1016/j.foodchem.2022.134674	22	Ge, Xiangzhen; Hu, Yayun; Shen, Huishan; Liang, Wei; Sun, Zhuangzhuang; Zhang, Xiuyun; Ospankulova, Gulnazym; Kh, Kakimova Zhainagul; Li, Wenhao
16	Understanding how electron beam irradiation doses and frequencies modify the multiscale structure, physicochemical properties, and in vitro digestibility of potato starch	печат.	FOOD RESEARCH INTERNATIONAL, Volume 162, Issue, 2022, ISSN 1873-7145, https://doi.org/10.1016/j.foodres.2022.111947	18	Liang, Wei; Zhao, Wenqing; Liu, Xinyue; Zheng, Jiayu; Sun, Zhuangzhuang; Ge, Xiangzhen; Shen, Huishan; Ospankulova, Gulnazym; Li, Wenhao
17	Insight into crosslinked chitosan/soy	печат.	INDUSTRIAL CROPS AND PRODUCTS,	18	Liang, Wei; Liu,

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	protein isolate /PVA plastics by revealing its structure, physicochemical properties, and biodegradability		Volume 187, Issue, 2022, ISSN 1872-633X, https://doi.org/10.1016/j.indcrop.2022.115548		Xinyue; Zheng, Jiayu; Zhao, Wengqing; Su, Chunyan; Ge, Xiangzhen; Shen, Huishan; Zhang, Xiuyun; Lu, Yifan; Ospankulova, Gulnazym; Li, Wenhao
18	Electron beam irradiation regulates the structure and functionality of ball-milled corn starch: The related mechanism	печат.	CARBOHYDRATE POLYMERS, Volume 297, Issue, 2022, ISSN 1879-1344, https://doi.org/10.1016/j.carbpol.2022.120016	16	Shen, Huishan; Yu, Jiangtao; Bai, Junqing; Ge, Xiangzhen; Liang, Wei; Ospankulova, Gulnazym; Zhang, Guoquan; Li, Wenhao
19	Recent advances in the application of subcritical water to plant and fungi polysaccharides preparation: A review	печат.	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Volume 322, Issue, 2025, ISSN 1879-0003, https://doi.org/10.1016/j.ijbiomac.2025.146720	24	Ma, Yuntian; Zhong, Yueyao; Wang, Zhenghao; Zhou, Yirun; Liu, Manshun; Lü, Xin; Wang, Xin
Публикации в изданиях, рекомендованных Комитетом по обеспечению качества в сфере науки и высшего образования Министерства науки и высшего образования					
20	Development and RSM-based Optimization of Biodegradable Edible Films from Electron Beam-Irradiated Starch and Chitosan	Печат.	Вестник университета Шакарима. Технические науки № 2(18), 2025. с. 336-345.	6	Orynbekov, D.R., Kalibekkyzy, Zh., Nurgazezova, A.N., Nurymkhan, G.N., Wu, Gang.
21	Биоразложение и экотоксикологическая оценка пищевых пленок на основе поликапролактона и модифицированного крахмала	Печат.	Вестник университета Шакарима. Технические науки № 2(18), 2025. с. 369-376.	6	Orynbekov, D.R., Kalibekkyzy, Zh., Nurgazezova, A.N., Nurymkhan, G.N., Jiang, Hao.



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