

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC OF KAZAKHSTAN  
KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I. SATBAYEV

Kaldibek Abdiyev

List of scientific articles published in international peer-reviewed scientific journals  
included in the Scopus and Web of Science databases

Author identifiers:

Scopus Author ID: 6507536515

Web of Science Researcher ID: O-1139-2017

ORCID: <https://orcid.org/0000-0002-2248-6203>

№ p/n	Publication title	Publication type	Journal name, year of publication, DOI	Journal impact factor, quartile and field of study according to Journal Citation Reports for the year of publication	Index in the Web of Science Core Collection database	Journal CiteScore, percentile and area of science according to Scopus for the year of publication	Full name of the authors (underline the applicant)	Author's role
1	2	3	4	5	6	7	8	9
1	Review of Slow Sand Filtration for Raw Water Treatment with Potential Application in Less-Developed Countries.	Review	Water 2023. V. 15. Issue 11. P. 2007; <a href="https://doi.org/10.3390/w15112007">https://doi.org/10.3390/w15112007</a>	(2022) Impact Factor: 3.4 Water resources – Q2	SCIE	(2022) CiteScore 5.5.  Water Science and Technology – 76% percentile	<u>Kaldibek Abdiyev</u> , Seitkhan Azat, Erzhan Kuldeyev, Darkhan Ybyraiymkul, Sana Kabdrakhmanova, Ronny Berndtsson, Bostandyk Khalkhabai,	1) First author; 2) Author for correspondence.

July 17, 2023

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							Ainur Kabdrakhmanova and Shynggyskhan Sultakhan	
2	Novel Cationic Polymer Surfactant for Regulation of the Rheological and Biocidal Properties of the Water-Based Drilling Muds	Article	Polymers 2023. V. 15. Issue 2. P. 330; <a href="https://doi.org/10.3390/polym15020330">https://doi.org/10.3390/polym15020330</a>	(2022) Impact Factor: 5.0. Polymer science – Q1	SCIE	(2022) CiteScore 6.6.  Polymers and Plastics – 76% percentile	<u>Abdiyev, K.Zh.</u> , Maric, M., Orynbayev, B., Zhursumbaeva, M., Seitkaliyeva, N., Toktarbay, Z.	1) First author; 2) Author for correspondence.
3	Flocculating properties of 2-acryl-amido-2-methyl-1-propane sulfonic acid-co-allyl-amine polyampholytic copolymers	Article	Polymer Bulletin. 2022. V. 79(12). P. 10741-10756. <a href="https://doi.org/10.1007/s00289-021-03994-2">https://doi.org/10.1007/s00289-021-03994-2</a>	Impact Factor: 3.2. Polymer science – Q2	SCIE	CiteScore 5.4.  Polymers and Plastics – 69%; Chemistry (General Chemistry) – 67% percentile	<u>K.Zh. Abdiyev</u> , Milan Maric, B.Ye. Orynbayev, Zh. Toktarbay, M.B. Zhursumbaeva, N.Zh. Seitkaliyeva	1) First author; 2) Author for correspondence.
4	Kinetic Analysis of Methane Hydrate Formation with	Article	Molecules 2022. V. 27 (14), P. 4388. <a href="https://doi.org/10.3390/molecules2714438">https://doi.org/10.3390/molecules2714438</a>	Impact Factor: 4.6.	SCIE	CiteScore 6.7.	Longinos, S.N., Longinou,D.D., Myrzakhmetova, N.,	Co-author

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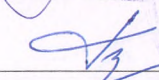
	Butterfly Turbine Impellers			Chemistry, multidisciplinary – Q2		Chemistry (miscellaneous) – 78% ; Chemistry (Organic Chemistry) – 78% percentile	Zhursumbaeva, M.B., <u>Abdiyev, K.Zh.</u> , Toktarbay Z., Parlaktuna, M.	
5	Structure formation in-suspensions and biocidal properties of copolymer of 2-acrylamido-2-methylpropanesulfonic acid and allylamine.	Article	Materials Today: Proceedings. 2022. V. 71. Part 1. P. 13-17. <a href="https://doi.org/10.1016/j.matpr.2022.06.050">https://doi.org/10.1016/j.matpr.2022.06.050</a>	IF 1.46. SJR 0.341.		CiteScore 2.3.  General Materials Science – 42% percentile	<u>Abdiyev, K.Zh.</u> , Toktarbay, Zh., Orynbayev, B.Ye., Zhursumbaeva M.B., Seitkaliyeva, N.Zh., Nakan U.	First author
6	Characterization and Swelling Properties of Copolymer Poly(N,N-dimethyl acrylamide-co-acrylic acid) and Homopolymer Poly(acrylic acid)	Article	Egyptian Journal of Chemistry. 2022. V. 65. Issue 4. P. 767-773. <a href="https://doi.org/10.21608/EJCHEM.2021.95005.4465">https://doi.org/10.21608/EJCHEM.2021.95005.4465</a>	Impact Score: 1.3. Chemistry, multidisciplinary – Q3	ESCI	CiteScore 1.9.  Chemistry – 37% percentile	Ulantay Nakan, Balgyn Tolkyun, D.B. Adikanova, El-Sayed Moussa Negim, G.Zh.Yeligbayeva T.M. Seilkhanov, B.A. Kenzhebayeva, <u>K.Zh. Abdiyev</u>	Co-author

July 17, 2023

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7	P(DADMAAC-co-DMAA): Synthesis, thermal stability, and kinetics	Article	Polymers for Advanced Technologies. 2021. V. 32. Issue 7. P. 2669 – 2675. <a href="https://doi.org/10.1002/pat.4999">https://doi.org/10.1002/pat.4999</a>	Impact Factor: 3.348. Polymer science – Q2	SCIE	CiteScore 5.5. Polymers and Plastics – 76% percentile	Akhmetzhan Ayatzhan, Ayezkhhan Tashenov, Abeu Nurgeldi, Ospanova Zhanar, Toktarbay Zhexenbek; <u>Abdiyev Kaldibek</u> , Nuxat Nuraje	Co-author
8	Copolymers of Diallyldimethylammonium Chloride and Vinyl Ether of Monoethanolamine: Synthesis, Flocculating, and Antimicrobial Properties	Article	Journal of Surfactants and Detergents. 2019. V. 22. Issue 5. P. 1129 – 1137. <a href="https://doi.org/10.1002/jsde.12283">https://doi.org/10.1002/jsde.12283</a>	Impact Factor: 1.654. Engineering, chemical – Q3	SCIE	CiteScore 3.3. General Chemical Engineering – 67%; Physical and Theoretical Chemistry – 51% percentile	Yerbol Dauletov, <u>Nurxat Nuraje</u> , <u>Kaldibek Abdiyev</u> , <u>Zhexenbek Toktarbay</u> , <u>Maryamgul Zhursumbaeva</u>	Author for correspondence.

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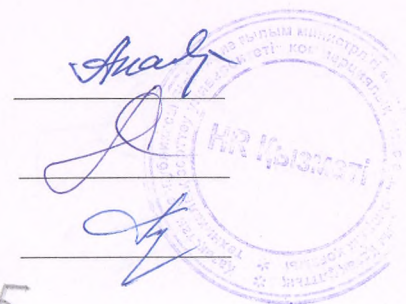
9	Radical Polymerization and Kinetics of N,N-diallyl-N,N-dimethylammonium Chloride and Vinyl Ether of Monoethanolamine	Article	Fibers and Polymers. 2018. V. 19. Issue 10. P. 2023–2029. <a href="https://doi.org/10.1007/s12221-018-6947-3">https://doi.org/10.1007/s12221-018-6947-3</a>	Impact Factor: 1.439. Chemistry (miscellaneous) – Q2; Polymers and Plastics – Q2.	SCIE	CiteScore 2.5. Chemistry (General Chemistry) - 55% ; Materials (Polymers and Plastics) -59% percentile	<u>Yebol Dauletov,</u> <u>Kaldybek Abdiyev,</u> <u>Zhexenbek Toktarbay,</u> <u>Nurxat Nuraje,</u> <u>Maryamgul Zhursumbaeva,</u> <u>Bagdaulet Kenzhaliyev</u>	Co-author
10	The new effective flocculants – Copolymers of N,N-dimethyl-N,N-diallyl-ammonium chloride and N,N-dimethylacrylamide	Article	Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2015. V. 480. P. 228 – 235. <a href="https://doi.org/10.1016/j.colsurfa.2015.04.025">https://doi.org/10.1016/j.colsurfa.2015.04.025</a>	Impact Factor: 2.760. Chemistry, physical – Q2	SCIE	CiteScore 4.4. Colloid and Surface Chemistry – 57% percentile	<u>Kaldybek Zh. Abdiyev,</u> <u>Zhexenbek Toktarbay,</u> <u>Akbota Zh. Zhenissova,</u> <u>Mariamkul B. Zhursumbaeva,</u> <u>Raya N. Kainazarova,</u> <u>Nurxat Nuraje</u>	1) First author; 2) Author for correspondence.

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11	Copolymerization of N,N-Dimethyl-N,N-diallylammonium Chloride with N,N-Dimethylacrylamide.	Article	Polymer Science, Series B. 2015. V. 57. Issue 3. P. 217–223. <a href="https://doi.org/10.1134/S156009041503001X">https://doi.org/10.1134/S156009041503001X</a>	Impact Factor: 0.737. Polymer science -Q4	SCIE	CiteScore 1.1. Polymers and Plastics – 43% percentile	<u>K.Zh. Abdiyev</u> , Zh. Toktarbay, A.Zh. Zhenissova M.B. Zhursumbaeva, R.N. Kainazarova	1) First author; 2) Author for correspondence.
12	Complexation of sodium 2-acrylamido-2-methylpropanesulfonate-monoethanolamine vinyl ether copolymer with polyelectrolytes in aqueous medium	Article	Polymer Science - Series A. 2007. V. 49. Issue 5. P. 584 – 592. <a href="https://doi.org/10.1134/S0965545X07050136">DOI: 10.1134/S0965545X07050136</a>	Impact Factor: 0.696. Polymer science – Q3	SCIE	-	Shaikhutdinov E.M., Khussain S.Kh., <u>Abdiyev K.Zh.</u> , Seitkaliyeva N.Zh.	Co-author
13	Effect of Polymer Concentration on the Surface Properties of Polyacid-Poly(N-vinylpyrrolidone) Complexes	Article	Colloid Journal (Kolloidnyi Zhurnal). 2003. V. 65. Issue 4. P. 399 – 402. <a href="https://doi.org/10.1023/A:1025105631381">https://doi.org/10.1023/A:1025105631381</a>	Impact Factor: 0.404. Chemistry, physical – Q4	SCIE	-	<u>K. Zh. Abdiyev</u> , E. M. Shaikhutdinov, M. B. Zhursumbaeva, S. Kh. Khussain	1) First author; 2) Author for correspondence.

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14	Surface Properties of Polyacid-Poly (N-Vinyl Pyrrolidone) Complexes	Article	Colloid Journal (Kolloidnyi Zhurnal), 2001, V. 63. Issue 6. P. 779–783. <a href="https://doi.org/10.1023/A:1013240423994">https://doi.org/10.1023/A:1013240423994</a>	Impact Factor: 0.384. Chemistry, physical – Q4	SCIE	-	Shaikhutdinov E.M., <u>Abdiev K.Zh.</u> , Zhursumbaeva M.B., Khusain S.Kh.	Author for correspondence.
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**Kaldibek Abdiyev's list of Scientific papers**

№ p/n	Title	Publication type	Output date	Number of pages	Co-authors
1	2	3	4	5	6
<b>Articles in journals recommended by the Committee for Quality Assurance in Education and Science of the Ministry of Science and Higher Education of the Republic of Kazakhstan</b>					
1.	Dynamic interfacial tension of interpolymer complexes.	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2002. №1. P. 60-64. ISSN: 2224-5286 (Print); ISSN : 2518-1491 (Online)	5	E.M. Shaikhutdinov G.B. Mederbekova S.Kh. Khussain
2.	Thermodynamics of interpolymer complexes' adsorption	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2002. № 2. P. 30-34. ISSN: 2224-5286 (Print); ISSN : 2518-1491 (Online)	5	M.B. Zhursumbaeva E.M. Shaikhutdinov S.Kh. Khussain
3.	Adsorption of Polycomplexes at Solution /Air Interface	Printed	Eurasian Chemico-Technological Journal. 2002. V. 4. No 4. P. 259-264. <a href="https://doi.org/10.18321/ectj542">https://doi.org/10.18321/ectj542</a> ISSN 1562-3920, eISSN 2522-4867	6	E.M. Shaikhutdinov, M.B. Zhursumbaeva, S.Kh. Khussain
4.	Surface pressure of monolayers of polymethacrylic acid-polypropylene glycol polycomplexes.	Printed	Chemical Bulletin of Kazakh National University. 2003. № 2 (30). P. 212-217.	6	A.Zh. Zhenissova A.A. Meldeshov

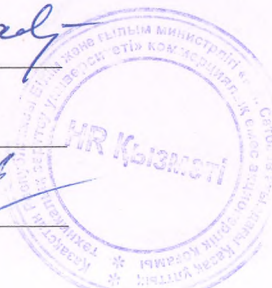
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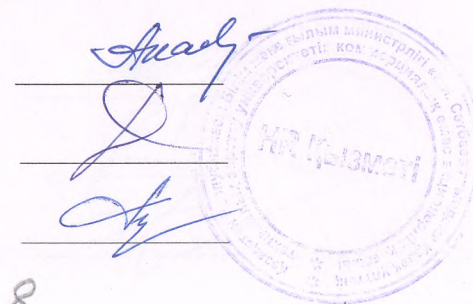
			ISSN 1563-0331; eISSN 2312-7554		
5.	New high molecular weight surfactant based on monoethanolamine monovinyl ether.	Printed	Chemical Bulletin of Kazakh National University. 2003. № 2 (30). P. 321-324. ISSN 1563-0331; eISSN 2312-7554	4	S.Kh. Khussainova N.Zh. Seitkaliyeva
6.	Some problems of teaching Physical chemistry in the training of Engineers.	Printed	Chemical Bulletin of Kazakh National University. 2003. № 2 (30). P. 442-443. ISSN 1563-0331; eISSN 2312-7554	2	E.M. Shaikhtudinov S.Kh. Khussain
7.	Surface pressures of monolayers of interpolymer complexes.	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2003. № 6. P. 11-16. ISSN: 2224-5286 (Print); ISSN: 2518-1491 (Online)	4	E.M. Shaikhtudinov G.B. Mederbekova S.Kh. Khussain
8.	Monolayers of polyacrylic acid-polypropylene glycol complexes.	Printed	Chemical Bulletin of Kazakh National University. 2004. № 2 (34). P. 108-111. ISSN 1563-0331; eISSN 2312-7554	4	A.Zh. Zhenissova, E.M. Shaikhtudinov, S.Kh. Khussain
9.	Surface properties of polyacid-polyacrylamide complexes. I. Adsorption of polycomplexes at the solution-air interface.	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2004. № 5. P.11-16. ISSN: 2224-5286 (Print); ISSN: 2518-1491 (Online)	6	E.M. Shaikhtudinov M.B. Zhursumbaeva S.Kh. Khussain
10.	Surface properties of polyacid-polyacrylamide complexes. I. Adsorption kinetics of polycomplexes at the solution-air interface.	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2004. № 6. P..33-38. ISSN: 2224-5286 (Print); ISSN : 2518-1491 (Online)	6	-----
11.	Surface properties of polyacid-polypropylene glycol complexes.	Printed	Science and Education of South Kazakhstan. Series Chemistry, chemical technology. 2004. V. 1. № 5 (40). P. 8-13. ISSN: 2616-6429	6	A.Zh. Zhenissova E.M. Shaikhtudinov S.Kh. Khussain G.K. Bishimbayeva
12.	Monolayers of copolymer of sodium 2-acrylamide 2-methylproanesulfonate with monoethanolamine vinyl ester and its complex with polyacrylic acid.	Printed	Science and Education of South Kazakhstan. Series Chemistry, chemical technology. 2004. V. 1. № 5 (40). P. 3-7. ISSN: 2616-6429	5	N.Zh. Seitkaliyeva E.M. Shaikhtudinov S.Kh. Khussain G.K. Bishimbayeva

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13.	Surface properties of polyacid-polyacrylamide complexes. I. Adsorption kinetics of polycomplexes at the solution-air interface.	Печатн.	ChemChemTech. (Izvestiya Vysshikh Uchebnykh Zavedenii. Khimiya i Khimicheskaya Tekhnologiya). 2005. V. 48. Issue. 3. P. 21-24. ISSN: 0579-2991 <a href="http://ctj.isuct.ru/files/2005/v48_n03_2005_full.pdf">http://ctj.isuct.ru/files/2005/v48_n03_2005_full.pdf</a>	4	E.M. Shaikhutdinov, M.B. Zhursumbaeva S.Kh. Khussain
14.	Complexation of a copolymer of sodium 2-acrylamido-2-methylpropanesulfonate and monoethanolamine vinyl ether with polyelectrolytes.	Printed	Reports of National Academy of Sciences of the Republic of Kazakhstan. 2005. № 2. P. 13-21. ISSN: 2224-5227 (Print); ISSN: 2518-1483 (Online)	9	E.M. Shaikhutdinov S.Kh. Khussain N.Zh. Seitkaliyeva R. Idrisova
15.	Complex formation of a copolymer of 2-acrylamido-2-methylpropanesulfonic acid with polymethacrylic acid.	Printed	Reports of National Academy of Sciences of the Republic of Kazakhstan. 2005. № 2. P. 39-46. ISSN: 2224-5227 (Print); ISSN: 2518-1483 (Online)	8	E.M. Shaikhutdinov A.Zh. Zhenissova S.Kh. Khussain A.K. Tolendina
16.	Surface properties of polyacid-polyacrylamide complexes. II. Adsorption of polycomplexes at the solution-air interface.	Printed	ChemChemTech. (Izvestiya Vysshikh Uchebnykh Zavedenii. Khimiya i Khimicheskaya Tekhnologiya). 2006. V. 49. Issue 7. P. 66-68. ISSN: 0579-2991	3	E.M. Shaikhutdinov M.B. Zhursumbaeva S.Kh. Khussain
17.	Influence of low-molecular electrolytes on the properties of interpolymer complexes of poly-2-acrylamido-2-methylpropanesulfonic acid. 1. Bulk properties of the polyelectrolyte complex.	Printed	Chemical Bulletin of Kazakh National University. 2005. № 3 (39). P. 137-142. ISSN 1563-0331; eISSN 2312-7554	6	A.Zh. Zhenissova E.M. Shaikhutdinov S.Kh. Khussain
18.	Influence of low-molecular electrolytes on the properties of interpolymer complexes of poly-2-acrylamido-2-methylpropanesulfonic acid. 2. Surface properties of the polyelectrolyte complex at the water-air interface.	Printed	Chemical Bulletin of Kazakh National University. 2005. № 3 (39). P. 142-147. ISSN 1563-0331; eISSN 2312-7554	5	A.Zh. Zhenissova E.M. Shaikhutdinov S.Kh. Khussain
19.	The influence of temperature on the surface property of complexes of the copolymer of 2-acrylamido-2-methylpropanesulfonic acid and vinyl butyl ether.	Printed	Bulletin of National Academy of Sciences of the Republic of Kazakhstan. 2005. July. № 4. P. 5-10. ISSN: 1991-3494 (Print); ISSN: 2518-1467 (Online)	6	E.M. Shaikhutdinov A.Zh. Zhenissova S.Kh. Khussain R.N. Kainazarova
20.	Surface properties of a copolymer of sodium 2-acrylamido-2-methylpropanesulfonate and ethylene glycol	Printed	Bulletin of National Academy of Sciences of the Republic of Kazakhstan. 2005. July. № 4. P. 66-69.	4	E.M. Shaikhutdinov N.Zh. Seitkaliyeva

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	vinyl ether.		ISSN: 1991-3494 (Print); ISSN: 2518-1467 (Online)		S.Kh. Khussain R.N. Kainazarova
21.	Influence of temperature on the properties of complexes of sodium 2-acrylamido-2-methylpropanesulfonate copolymer.	Printed	Reports of National Academy of Sciences of the Republic of Kazakhstan. 2006. № 2. P. 9-14. ISSN: 2224-5227 (Print); ISSN: 2518-1483 (Online)	5	E.M. Shaikhutdinov K.B. Musabekov S.Kh. Khussain N.Zh. Seitkaliyeva A.Zh. Zhenissova
22.	Effect of complexation with polymers on the surface properties of copolymers of 2-acrylamido-2-methylpropanesulfonic acid with vinyl ethers.	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2007. № 3 (363). P. 13-16. ISSN: 2224-5286 (Print); ISSN : 2518-1491 (Online)	4	-----
23.	Influence of interpolymer complex formation on the surface properties of polymers.	Printed	Chemical Bulletin of Kazakh National University. 2008. № 2(50). P. 163-169. ISSN 1563-0331; eISSN 2312-7554	7	E.M. Shaikhutdinov K.B. Musabekov
24.	Interpolymer complex formation of polymers derived from vinyl ethers (Review).	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2008. № 2 (368). P. 31-38. ISSN: 2224-5286 (Print); ISSN : 2518-1491 (Online)	8	-----
25.	Surface properties of interpolymer complexes (Review).	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2008. № 2 (368). P. 62-66. ISSN: 2224-5286 (Print); ISSN : 2518-1491 (Online)	5	-----
26.	Synthesis of (co)polymers based on vinyl ethers (Review).	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry. 2008. № 3 (369). P. 33-41. ISSN: 2224-5286 (Print); ISSN : 2518-1491 (Online)	7	-----
27.	Polymers based on 2-acrylamido-2-methylpropanesulfonic acid (Review).	Printed	Chemical Bulletin of Kazakh National University. 2008. № 1(49). P. 69-79. ISSN 1563-0331; eISSN 2312-7554	9	-----
28.	Physicochemical properties of copolymers based on 2-	Printed	Chemical Bulletin of Kazakh National University. 2008.	10	-----

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	acrylamido-2-methylpropanesulfonic acid (Review).		№ 1(49). P.79-87. ISSN 1563-0331; eISSN 2312-7554		
29.	Interpolymer complex formation of a copolymer of crotonic acid and 2-methyl-5-vinylpyridine.	Printed	Herald of the Kazakh-British technical university. 2009. № 1(8). P. 31-34. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	4	R.N. Kainazarova E.M. Shaikhutdinov
30.	Monolayers of polyacid-polyvinylpyrrolidone polycomplexes on an aqueous substrate.	Printed	Herald of the Kazakh-British technical university. 2009. № 4(11). P. 25-29. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	7	M.B. Zhursumbaeva E.M. Shaikhutdinov
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32.	Surface activity of copolymers based on 2-acrylamido-2-methylpropanesulfonic acid and vinyl butyl ether.	Printed	Chemical Bulletin of Kazakh National University. 2012. № 3 (67). P. 20-24. ISSN 1563-0331; eISSN 2312-7554	5	E.M. Shaikhutdinov K.B. Musabekov A.Zh. Zhenissova
33.	Copolymers based on 2-acrylamido-2-methylpropane-sulfonic acid and vinyl butyl ether.	Printed	Herald of the Kazakh-British technical university. 2012. № 4 (23). P. 35-45. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	10	E.M. Shaikhutdinov A.Zh. Zhenissova M.B. Zhursumbaeva
34.	Modeling the process of obtaining Euro-5 standard diesel fuel from diesel fuel obtained as a result of primary oil refining using Hysys and Excel programs.	Printed	Herald of the Kazakh-British technical university. 2014. № 2 (29). P. 32-40. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	11	Zhaparov A.B. Dauletov E.A. Utegenov N.
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36.	Copolymer based on 2-acrylamido-2-methylpropanesulfonic acid and isopropylacrylamide.	Printed	Herald of the Kazakh-British technical university. 2014. № 2 (29). P. 21-28. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	9	A.A. Mikisheva Zh. Toktarbay A.Zh. Zhenissova R.N. Kainazarova
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July 17, 2023

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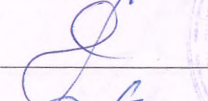
			ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)		
38.	Copolymerization of 2-acrylamide-2-methylpropane-sulfonic acid with N,N-dimethylacrylamide.	Printed	Herald of the Kazakh-British technical university. 2015. V. 12. № 3 (34). P. 58-65. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	8	Zheksenbek Tokhtarbay, Nurxat Nuraje.
39.	Study of the activity of 2-acrylamide-2-propanesulfonic acid and N,N-dimethylacrylamide monomers in the copolymerization reaction.	Printed	Herald of the Kazakh-British technical university. 2015. V. 12. № 3 (34). P. 79-84. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	7	Nurxat Nuraje Zheksenbek Tokhtarbay
40.	Synthesis and flocculating properties of the Copolymer of N,N-dimethyl-N,N-diallylammonium chloride and vinyl ether of monoethanolamine.	Printed	Herald of the Kazakh-British technical university. 2017. № 2,3 (41-42). P. 40-47. ISSN 1998-6688 (Print); ISSN 2959-8109 (Online)	8	Dauletov Ye., Toktarbay Zh., Nurxat Nuraje, Zhursumbaeva M.B.
41.	Influence of biocides on growth and development of corrosive-dangerous microflora.	Printed	News of National Academy of Sciences of the Republic of Kazakhstan. Series of Biology and Medicine. 2018. T. 1. № 325. C. 22-28. ISSN 2224-5308.	7	Aitkeldiyeva S.A., Faizulina E.R., Tatarkina L.G., Auezova O.N., Nurmukhanbetova A.M., Sadanov A.K.
42.	Poly (DADMAC-co- VEMEA): Synthesis and Flocculation Properties.	Printed	International Journal of Biology and Chemistry. 2018. V. 11. No 2. P. 108-116. ISSN: 2218-7979 (Print); ISSN: 2409-370X (Online) <a href="https://doi.org/10.26577/ijbch-2018-2-334">https://doi.org/10.26577/ijbch-2018-2-334</a>	9	Dauletov Ye., Bajayo-Lugo M., Toktarbay Zh., Nuraje N.
43.	Quality indicators of drinking water of Maisky district of Pavlodar region of the Republic of Kazakhstan	Printed	Вестник НЯЦ РК. 2023. Выпуск 2(94). С. 25-33. ISSN 1729-7516 (Print); ISSN 1729-7885 (Online) <a href="https://doi.org/10.52676/1729-7885-2023-2-25-32">https://doi.org/10.52676/1729-7885-2023-2-25-32</a>		S. Azat S. Kabdrakhmanova A. Kabdrakhmanova K. Aryn, E. Kuldeev B. Khalkhabay Sh. Sultakhan A. Rash

July 17, 2023

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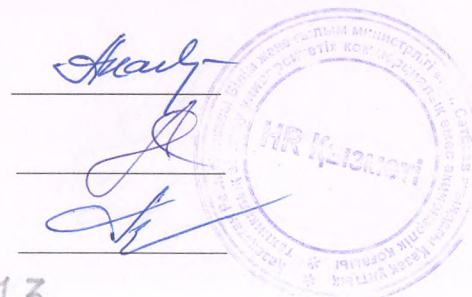
Patents					
44	Copolymer of 2-acrylamido-2-methylpropanesulfonic acid with allylamine with flocculating action and method of its preparation.	Printed	Patent of RK № 3420. Application № 2018/0488.1. Application date: 10.07.2018.		Orynbayev B.E. Toktarbay Zh.
45	Copolymer N-[(3-dimethylamino)propyl]-methacrylamide with N,N-dimethyl-N,N-diallylammonium chloride.	Printed	Patent of RK № 34204. Application № 2018/0614.1. Application date: 05.09.2018.		Orynbayev B.E., Seitkaliyev N.Zh., Toktarbay Zh., Zhursumbaeva M.B.
46	Flocculant based on N,N-dimethyl-N,N-diallylammonium chloride.	Printed	Application for grant of a patent of the Republic of Kazakhstan for an invention. Registration № 2015/1125.1. Application date: 08.10.2015.		Beisembetov I.K. Kenzhaliyev B.K. Toktarbay Zh. Zhursumbaeva M.B. Dauletov Ye.A.
47	Method of preparation of copolymer 2-acrylamido-2-methylpropanesulfonate sodium with dimethylacrylamid.	Printed	Patent of RK № 27161. Application date: 08.11.2012. Date of Issue 16.11.2015. Bulletin № 7, 15.07.2013.		Utelbayev B.T. Zhursumbaeva M.B. Kainazarova R.N. Zhenissova A.Zh. Toktarbay Zh.
48	The method of preparation of the copolymer is N,N-dimethyl-N,N-diallylammonium chloride with dimethylacrylamide.	Printed	Conclusion on the grant of a patent for an invention dated September 25, 2015. Application № 2012/1187.1. Application date: 08.11.2012.		Zhursumbaeva M.B. Kainazarova R.N. Zhenissova A.Zh. Toktarbay Zh.
49	Copolymer N,N-dimethyl-N,N-diallylammonium chloride with dimethylacrylamide and its preparation method.	Printed	Innovation Patent of RK № 27160. Published 15.07.2013. Bulletin № 7.		M.B. Zhursumbaeva R.N. Kainazarova A.Zh. Zhenissova Zh. Toktarbay
50	Copolymer of sodium 2-acrylamido-2-methylpropane-sulfonate with dimethylacrylamide and method of its preparation.	Printed	Innovation Patent of RK № 27161 for an Invention. Published 15.07.2013. Bulletin № 7.		Utelbayev B.T. Zhursumbaeva M.B. Kainazarova R.N. Zhenissova A.Zh.

July 17, 2023

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					Toktarbay Zh.
51	Method of water purification from paint and varnish materials.	Printed	Innovation Patent of RK PK № 20514. Published 15.12.2008. Bulletin № 12.		E.M. Shaikhutdinov S.Kh. Khussain A.Zh. Zhenissova N.Zh. Seitkaliyeva
52	The method of gold flotation from the tailings of gravity beneficiation of resistant gold-bearing ore.	Printed	Provisional patent of RK №18442. Published 15.05.2007. Bulletin № 5. P. 2		B.K. Kenzhaliyev N.K. Tusupbayev G.Zh. Abdykirova A.B. Bitteev R.P. Fetisova Yu.G. Sazhin A.K. Akurpekova. D.K. Turysbekov Zh.A. Kaldybayeva
53	The method is gold flotation.	Printed	Provisional patent of RK №17736. Published 15.09.2006. Bulletin № 9.		E.M. Shaikhutdinov A.B. Bitteev N.K. Tusupbayev S.Kh. Khussain G.Zh. Abdykirova N.Zh. Seitkaliyeva R.P. Fetisova
54	Copolymer of 2-acrylamido-2-methylpropanesulfonic acid with vinylbutyl ether and method of its preparation.	Printed	Provisional patent of RK № 17755. Published 15.09.2006. Bulletin № 9.		E.M. Shaikhutdinov S.Kh. Khussain A.Zh. Zhenissova
55	Hydrosol flocculation method.	Printed	Provisional patent of RK № 17747. Published 15.09.2006. Bulletin № 9.		E.M. Shaikhutdinov S.Kh. Khussain A.Zh. Zhenissova
56	Copolymer of sodium 2-acrylamido-2-methylpropane-sulfonate with vinyl ether of ethylene glycol and method of its preparation.	Printed	Provisional patent of RK № 17756. Published 15.09.2006. Bulletin № 9.		E.M. Shaikhutdinov S.Kh. Khussain N.Zh. Seitkaliyeva

July 17, 2023

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58	Copolymer of crotonic acid with 2-methyl-5-vinylpyridine as a multifunctional polyelectrolyte and its preparation method.	Printed	Provisional patent of RK № 14460. Published 15.06.2004. Bulletin № 6.		E.M. Shaikhutdinov R.N. Kainazarova S.Kh. Khussain
59	Hydrosol flocculation method.	Printed	Provisional patent of RK PK №13138. Published 16.06.2003. Bulletin № 6.		E.M. Shaikhutdinov S.Kh. Khussain N.Zh. Seitkaliyeva
60	Copolymer of sodium 2-acrylamido-2-methylpropane-sulfonate with monovinyl ether monoethanolamine and method of its preparation.	Printed	Provisional patent of RK № 13148. Published 16.06.2003. Bulletin № 6.		S.Kh. Khussain E.M. Shaikhutdinov N.Zh. Seitkaliyeva
61	A method of liquid manure's purification from suspended particles.	Printed	Provisional patent of RK № 12084. Published 15.10.2002. BI № 10.		E.M. Shaikhutdinov S.Kh. Khussain M.B. Zhursumbaeva
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62	Synthesis of a water-soluble copolymer of 2-acrylamido-2-methylpropanesulfonic acid with vinylbutyl ether.	Printed	Search. (Poisk) Series of natural and technical sciences. 2005. No 1. P. 5-9.	5	A.Zh. Zhenissova E.M. Shaikhutdinov S.Kh. Khussain R. Idrisova
63	Cleaning of petroleum products from sulfur-containing compounds.	Printed	Vestnik KazNRTU. 2001. No 4. P. 42-49. ISSN: 2709-4758; eISSN 2709-4766	5	E.M. Shaikhutdinov S.Kh. Khussain
64	Determination of the reactivity of vinyl monomers in radical copolymerization by the AMI method.	Printed	Vestnik KazNRTU, 2004. No 5 (43). P. 152-155. ISSN: 2709-4758; eISSN 2709-4766	4	N.Zh. Seitkaliyeva S.Kh. Khussain S.N. Tusupbayev
65	Complex formation between the copolymer of 2-acrylamido-2-methylpropanesulfonic acid with vinylbutyl ether and polydimethyldiallylammonium chloride.	Printed	Vestnik KazNRTU, 2004. No 5 (43). P. 156-160. ISSN: 2709-4758; eISSN 2709-4766	5	S.Kh. Khussain A.Zh. Zhenissova R. Tusupbayev

July 17, 2023

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66	Influence of the conformation and hydrophobicity of polymer macromolecules on the surface properties of interpolymer complexes at the water-air interface.	Printed	Vestnik KazNRTU. 2004. No 6(44). P.142-147. ISSN: 2709-4758; eISSN 2709-4766	6	-----
67	Flocculants for wastewater treatment.	Печатн.	Vestnik KazNRTU. 2005. No 2(46). P.148-153. ISSN: 2709-4758; eISSN 2709-4766	6	-----
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68	Physical chemistry. Textbook for undergraduates. Textbook. It was proposed as a textbook by the Academic Council of the University. ISBN 978-601-323-382-6	Printed	Textbook. Almaty: KazNRTU. 2022. 297 p. ISBN 978-601-323-382-6	297	----
69	Colloid chemistry. Textbook. ISBN 978-601-80220-1-2	Printed	Textbook. Almaty: Association of Higher Education Institutions of the Republic of Kazakhstan. 2011. 172 p. ISBN 978-601-80220-1-2	172	Musabekov K.B.
70	Fundamentals of colloidal chemistry. Study guide.	Printed	Study guide. Almaty: KazNU publisher, 2008.	178	Musabekov K.B.
71	Surface phenomena. Adsorption. Study guide.	Printed	Study guide. Almaty: KazNRTU publisher, 2001.	104	----
72	K.S. Birdi. Surface and Colloid Chemistry. Principles and Applications. Textbook. ISBN 978-601-217-441-0	Printed	Textbook. Almaty: LTD "Daur", 2013. 388 p. ISBN 978-601-217-441-0	388	Translated from English to Kazakh by Abdiyev K.Zh.
73	Anne E. Marteel-Parrish, Martin A. Abraham. Green Chemistry and Engineering: Path to Sustainability. ISBN 978-601-7529-67-3	Printed	Textbook. Almaty, 2016. 363 p. ISBN 978-601-7529-67-3	363	Translated from English to Kazakh by Abdiyev K.Zh.

July 17, 2023

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