

**Список научных трудов и изобретений  
НУҒЫМАНОВОЙ АЙЖАН ОЛЖАБЕКҚЫЗЫ**

на соискание степени доктора философии (PhD)

по специальности «6D073200–Техническая физика»

№	Название трудов	Рукопись или печатные	Наименование издательства, журнала (№, год), № авторского свидетельства	К-во печатных листов	Фамилии соавторов работы
<b>ПУБЛИКАЦИИ В ЖУРНАЛАХ ИНДЕКСИРУЕМЫХ БАЗАМИ ДАННЫХ THOMSON REUTERS И SCOPUS</b>					
1.	The use of a new “clean” technology for burning low-grade coal in on boilers of Kazakhstan TPPs	печ.	Journal Bulgarian Chemical Communications. – 2018. – Vol. 50. – P. 53-60. <b>(IF: 0.40).</b>	9	Askarova A.S., Bolegenova S.A., Georgiev A., Baizhuma Zh.T.
2.	Процессы тепломассопереноса в топочных камерах при горении термохимически активированного топлива	печ.	Теплофизика и Аэромеханика. – 2019. – Т. 26, № 6. – С. 977-989. <b>(IF: 1.023).</b>	12	Аскарлова А.С., Болегенова С.А., Шафарик П., Максимов В.Ю., Болегенова С.А.,
3.	3D-modeling of Kazakhstan low-grade coal burning in power boilers of thermal power plant with application of plasma gasification and stabilization technologies	печ.	Journal of Physics: Conference Series. – 2019. – Vol. 1261. – P. 12–22. <b>(SJR: 0.210).</b>	10	Messerle V.E., Askarova A.S., Bolegenova S.A., Maximov V.U
4.	3-D modeling of heat and mass transfer process during the combustion of solid fuel in a swirl furnace	печ.	Acta Polytechnica, Journal of Advanced Engineering. 2019. – Vol. 59. – No. 6. – P.543–553. <b>(SJR:0.207).</b>	10	Askarova A.S., Safarik P., Bolegenova S.A., Maximov V.U.
5.	3D modelling of heat and mass transfer during combustion of low-grade coal	печ.	Thermal Science. — 2020. – Vol. 24, № 5(A). – P. 2823–2832. <b>(IF: 1.625).</b>	9	Askarova A.S., Safarik P., Maximov V.U., Bolegenova S.A.

6.	Minimization of toxic emissions during burning low-grade fuel at Kazakhstan thermal power plant	печ.	Acta Polytechnica, Journal of Advanced Engineering. 2020. – Vol. 60. – No. 3. – P. 206–213. (SJR:0.207)	7	Askarova A.S., Safarik P., Maximov V.U., Bolegenova S.A.
7.	3D simulation of heat and mass transfer for testing of “clean energy” production technologies	печ.	Thermophysics and Aeromechanics, 2021. Vol. 28, No 2. – P. 291–301. (IF: 1.023).	10	Messerle V.E., Askarova A.S., Maximov V.U., Bolegenova S.A.
8.	Computer technologies of 3D modeling by combustion processes to create effective methods of burning solid fuel and reduce harmful dust and gas emissions into the atmosphere	печ.	Energies. 2021. – Vol. 14. – P. 1236. (IF: 3.004).	20	Askarova A.S., Safarik P., Bolegenova S.A., Maximov V.U., Askarov N.

**ПУБЛИКАЦИИ В ЖУРНАЛАХ, РЕКОМЕНДУЕМЫХ ККСОН МОН РК**

9.	Optimization of the solid fuel combustion process in combustion chambers in order to reduce harmful emissions	печ.	News of the national academy of sciences of the Republic of Kazakhstan-series physico-mathematical. – 2019. – Vol. 6, № 328. – P. 34–42.	8	Askarova A.S., Safarik P., Maximov V.U., Bolegenova S.A.
10.	Numerical simulation of heat and mass transfer at the partial stop of fuel supplying in the chamber of TPP	печ.	News of the national academy of sciences of the Republic of Kazakhstan-series Physico-mathematical. – 2020. – Vol. 2, № 330. – P. 88–95.	7	Askarova A.S., Safarik P., Bolegenova S.A., Maximov V.U.
11.	Use of two-stage fuel combustion technology to minimize hazardous emissions at Kazakhstan TPP	печ.	News of the national academy of sciences of the Republic of Kazakhstan physico-mathematical series. – 2021. – Vol. 1, № 335. – P. 74–80.	6	Askarova A.S., Safarik P., Maximov V.U., Bolegenova S.A.

**ПУБЛИКАЦИИ В МЕЖДУНАРОДНЫХ КОНФЕРЕНЦИЯХ И СИМПОЗИУМАХ  
ДАЛЬНЕГО ЗАРУБЕЖИЯ**

12.	Simulation of the aerodynamics and combustion of a turbulent pulverized-coal flame		4th International Conference on Mathematics and Computers in Sciences and Industry (MCSI 2017). – Corfu Island, Greece, 2017. – P. 92–97.	5	Askarova A.S., Bolegenova S.A., Maximov V.U.
13.	Influence of thermochemical activation of fuel on the combustion process in furnace chambers of thermal power plants	печ.	First International Alternative Energy Sources, Materials & Technologies (AESMT'21), Virtually, Ruse, Bulgaria, 2021. – Vol. 3. – P. 105–106.	1	Askarova A.S., Bolegenova S.A., Tagaibek A.S.

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