

**Список основных публикаций официального оппонента
по теме диссертации за последние 5 лет**

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2. Uzdenova A., Kovalenko A., Urtenov M. Theoretical Analysis of Electroconvection in the Electrodialysis Desalination Channel under the Action of Direct Current // *Membranes*. – 2022. – Vol. 12, No. 11. – Art. 1125. – DOI: 10.3390/membranes12111125.
3. Коваленко А.В., Узденова А.М., Овсянникова А.В., Уртенов М.Х., Бостанов Р.А. Математическое моделирование влияния спейсеров на массоперенос в электромембранных системах // *Вестник Самарского государственного технического университета. Серия: Физико-математические науки*. – 2022. – Т. 26, № 3. – С. 520–543. – DOI: 10.14498/vsgtu1944.
4. Uzdenova A., Kovalenko A., Prosviryakov E., Urtenov M. Mathematical Modeling of the Influence of the Karman Vortex Street on Mass Transfer in Electromembrane Systems // *Membranes*. – 2023. – Vol. 13, No. 4. – Art. 394. – DOI: 10.3390/membranes13040394.
5. Uzdenova A. Ion Transport in Electromembrane Systems under the Passage of Direct Current: 1D Modelling Approaches // *Membranes*. – 2023. – Vol. 13, No. 4. – Art. 421. – DOI: 10.3390/membranes13040421.
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8. Узденова А.М. Численное моделирование влияния диссоциации воды на хронопотенциограмму проточной электродиализной ячейки // *Перспективы науки*. – 2024. – № 3 (174). – С. 94–99.
9. Nikonenko V., Uzdenova A., Kovalenko A., Urtenov M. Theoretical Study of the Influence of Electroconvection on the Efficiency of Pulsed Electric Field (PEF) Modes in ED Desalination // *Membranes*. – 2024. – Vol. 14, No. 11. – Art. 225. – DOI: 10.3390/membranes14110225.
10. Kovalenko S., Kirillova E., Chekanov V., Uzdenova A., Urtenov M. Analytical Solutions and Computer Modeling of a Boundary Value Problem for a Nonstationary System of Nernst–Planck–Poisson Equations in a Diffusion Layer // *Mathematics*. – 2024. – Vol. 12, No. 24. – Art. 4040. – DOI: 10.3390/math12244040.