
TEZĂ DE DOCTORAT

Aplicații ale designului experimental în dezvoltarea unor metode de electroforeză capilară pentru determinarea unor impurități chirale și achirale ale unor substanțe de interes farmaceutic

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LISTA DE PUBLICAȚII

Articole publicate în extenso în reviste cotate ISI:

1. Hancu G, Orlandini S, Papp LA, **Modroiu A**, Gotti R, Furlanetto S. Application of experimental design methodologies in the enantioseparation of pharmaceuticals by capillary electrophoresis: a review. *Molecules* 2021; 26, 4681, doi: 10.3390/molecules26154681, FI: 4,2 (Q2)
<https://doi.org/10.3390/molecules26154681>
2. Hancu G, **Modroiu A**. (autori cu contribuții egale) Chiral Switch: between therapeutical benefit and marketing strategy. *Pharmaceuticals* 2022; 15, 240, doi: 10.3390/ph15020240, FI: 4,3 (Q1)
<https://doi.org/10.3390/ph15020240>
3. Orlandini S, Hancu G, Szabó ZI, **Modroiu A**, Papp LA, Gotti R, Furlanetto S. New trends in the quality control of enantiomeric drugs: quality by design-compliant development of chiral capillary electrophoresis methods. *Molecules* 2022; 27, 7058, doi: 10.3390/molecules27207058, FI: 4,2 (Q2)
<https://doi.org/10.3390/molecules27207058>
4. **Modroiu A**, Krait S, Hancu G, Scriba GKE. Quality by design-guided development of a capillary electrophoresis method for the chiral purity determination of silodosin. *Journal of Pharmaceutical and Biomedical Analysis* 2023; 222, 115117, doi: 10.1016/j.jpba.2022.115117, FI: 3,1 (Q2)
<https://doi.org/10.1016/j.jpba.2022.115117>
5. **Modroiu A**, Krait S, Hancu G, Scriba GKE. Quality by design-guided development of a capillary electrophoresis method for the simultaneous chiral purity determination and impurity profiling of tamsulosin. *Journal of Separation Science* 2023; 46, 2300604, doi: 10.1002/jssc.202300604, FI: 2,8 (Q2)
<https://doi.org/10.1002/jssc.202300604>
6. **Modroiu A**, Marzullo L, Orlandini S, Gotti R, Hancu G, Furlanetto S. Analytical quality by design-based development of a capillary electrophoresis method for omeprazole impurity profiling. *Journal of Pharmaceutical and Biomedical Analysis* 2024; 248, 116295, doi: 10.1016/j.jpba.2024.116295, FI: 3,1 (Q2)
<https://doi.org/10.1016/j.jpba.2024.116295>