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教育经历:

2009-2021　芬兰Åbo Akademi 大学化学工程系　博士　导师:Johan Bobacka 教授
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科研项目:

1) 国家自然科学基金委员会，青年科学基金项目, 22204026，基于库仑法新型转导信号的全固态离子选择性电极, 2023-01-01 至 2025-12-31, 30 万元，在研，主持
2) 中国博士后科学基金会，中国博士后科学基金第 71 批面上资助二等, 2022M710859，基于新型库仑法的柔性可穿戴汗液离子传感器件, 2022-09 至今, 8 万元，结题，主持
3) 广州市博士后项目, 62216202，基于双电解池库仑法构筑的全固态离子选择性电极的精准检测, 2022-2023, 20 万，结题，主持
4）国家自然科学基金委员会，面上项目, 22278092，杂原子掺杂木质素碳基催化剂的原位构建以及氧化还原反应性能研究, 2023-01-01 至 2026-12-31, 30 万元，在研，参与

SCI 代表作：

1. **T. Han***, U. Mattinen, Tao Song, J. Bobacka, Expanding the possibilities for an instrument-free method to reproducible resetting of the standard potential (E°) of solid-contact ion-selective electrodes, *Sensors and Actuators: B. Chemical,* 390 (2023) 134005 (影响因子：9.22，**JCR一区**)
2. **T. Han**, T. Song, Y. Bao, W. Wang*, Y. He, Z. Liu, S. Gan*, D. Han, J. Bobacka, L. Niu, Fast and sensitive coulometric signal transduction for ion-selective electrodes by utilizing a two-compartment cell, *Talanta*, 262 (2023) 124623. (影响因子：6.556，**JCR一区**)
3. W. Fang, T. Song*, L. Wang, **T. Han***, Z. Xiang, O.J. Rojas, Influence of formic acid esterified cellulose nanofibrils on compressive strength, resilience and thermal stability of polyvinyl alcohol-xylan hydrogel, *Carbohydrate Polymers*, 308 (2023) 120663. (影响因子：10.723，**JCR一区**)
4. **T. Han**, T. Song, A. Pranovich, O.J. Rojas, Engineering a semi-interpenetrating constructed xylan-based hydrogel with superior compressive strength, resilience, and creep recovery abilities, *Carbohydrate Polymers*, 2294 (2022) 119722. (影响因子：10.723，**JCR一区**)

5. **T. Han**, A.V. Kalinichev, Z. Mousavi, K.N. Mikhelson, J. Bobacka, Anomalous potentiometric response of solid-contact ion-selective electrodes with thin-layer membranes, *Sensors and Actuators: B. Chemical*, 357 (2022) 131416. (影响因子：9.22，**JCR一区**)
6. Y. Luo, T. Song*, H. Ji, H. Qi, Z. Xiang, H. Xiong, Y. Cen, G. Chen, **T. Han***, A. Pranovich, Preliminary Investigations of the Mechanisms Involved in the Ultrasonication-Assisted Production of Carboxylic Cellulose Nanocrystals with Different Structural Carboxylic Acids, *ACS Sustainable Chem. Eng.*, 9 (2021) 4531-4542. (影响因子：9.224，**JCR一区**)
7. **T. Han**, U. Mattinen, Z. Mousavi, J. Bobacka*, Coulometric response of solid-contact anion-sensitive electrodes, *Electrochimica Acta*, 367 (2021) 137566. (影响因子：6.2，**JCR一区**)
8. **T. Han**, U. Mattinen, J. Bobacka*, Improving the Sensitivity of Solid-Contact Ion-Selective Electrodes by Using Coulometric Signal Transduction, *ACS Sensors*, 4 (2019) 900–906. (影响因子：10.787，**JCR一区**)
9. H. Ji, Z. Xiang, H. Qi, **T. Han***, A. Pranovich, T. Song*, Strategy towards one-step preparation of carboxylic cellulose nanocrystals and nanofibrils with high yield, carboxylation and highly stable dispersibility using innocuous citric acid, *Green Chem.* 21(2019) 1956-1964. (影响因子：10.182，**JCR一区**，封底文章)
10. **T. Han,** T. Song, Y. Bao, Z. Sun, Y. Ma, Y. He, S. Gan, D. Jiang, D. Han, J. Bobacka, L. Niu, Amperometric response of solid-contact ion-selective electrodes utilizing a two-compartment cell and a redox couple in solution, *Journal of Electroanalytical Chemistry*, 904 (2022) 115923. (影响因子：4.598，**JCR一区**)
11. **T. Han**, U. Vanamo, J. Bobacka*, Influence of Electrode Geometry on the Response of Solid-Contact Ion-Selective Electrodes when Utilizing a New Coulometric Signal Readout Method, *ChemElectroChem*. 3 (2016) 2071–2077. (影响因子：4.782，**JCR二区**，封底文章)
12. **T. Han**, Z. Mousavi, U. Mattinen, J. Bobacka*, Coulometric response characteristics of solid contact ion-selective electrodes for divalent cations, *J. Solid State Electrochem.* 24 (2020) 2975-2983. (影响因子：2.65，**JCR二区**)
13. **T. Han**, T. Song, S. Gan, D. Han*, J. Bobacka, L. Niu*, A. Ivaksa*, Coulometric response of H^+-selective solid-contact ion-selective electrodes and its application in flexible sensors, *Chinese Journal of Chemistry*, 2 (2022) 207-213 (影响因子：5.56，**JCR二区**)
14. J. Luo, T. Song*, **T. Han***, H. Qi, Q. Liu, Q. Wang, Z. Song, O. Rojas, Multifunctioning of carboxylic-cellulose nanocrystals on the reinforcement of compressive strength and conductivity for acrylic-based hydrogel, *Carbohydrate Polymers*, 327 (2024) 121685 (影响因子：10.723，**JCR一区**)