

Joseph Martin Hamill
Adjunkt
Kemisk Institut
Postadresse:
Universitetsparken 5
2100
København Ø
E-mail: jmh@chem.ku.dk
Mobil: +4531520414
Hjemmeside: <https://www.ki.ku.dk>

Ansættelse

Adjunkt
Kemisk Institut
Københavns Universitet
København Ø, Danmark
1 jun. 2022 → nu

Publikationer

Improving single-molecule conductance measurements with change point detection from the econometrics toolbox

Hamill, Joseph Martin, Bro-Jørgensen, William Dilys, Balogh, Z., Li, H., Leitherer, Susanne, Solomon, D., Halbritter, A. & Solomon, Gemma C., 23 jan. 2024, arxiv.org, 41 s.

Chemistry of the Au-Thiol Interface through the Lens of Single-Molecule Flicker Noise Measurements

Rashid, U., Bro-Jørgensen, William Dilys, Harilal, K. B., Sreelakshmi, P. A., Mondal, R. R., Chittari Pisharam, V., Parida, K. N., Geetharani, K., Hamill, Joseph Martin & Kaliginedi, V., 2024, I: Journal of the American Chemical Society. 146, 13, 11 s.

Quantum Interference and Contact Effects in the Thermoelectric Performance of Anthracene-Based Molecules

Hamill, Joseph Martin, Ismael, A., Al-Jobory, A., Bennett, T. L. R., Alshahrani, M., Wang, X., Akers-Douglas, M., Wilkinson, L. A., Robinson, B. J., Long, N., Lambert, C. & Albrecht, T., 10 apr. 2023, I: The Journal of Physical Chemistry Part C. 127, 15, s. 7484–7491 8 s.

Assembly, structure and thermoelectric properties of 1,1'-dialkynylferrocene 'hinges'

Wilkinson, L. A., Bennett, T. L. R., Grace, I., Hamill, Joseph Martin, Wang, X., Au-Yong, S., Ismael, A., Jarvis, S. P., Hou, S., Albrecht, T., Cohen, L. F., Lambert, C., Robinson, B. J. & Long, N., 2022, I: Chemical Science. 28, s. 8380–8387 8 s.

Significant two-step potential-induced surface reconstruction observed on Au(1 1 1) in aqueous sulfuric acid

Hamill, Joseph Martin, Zhour, K., Diddens, D. & Baghernejad, M., 2022, I: Electrochemistry Communications. 140, 5 s., 107332.

Trusting our machines: validating machine learning models for single-molecule transport experiments

Bro-Jørgensen, William Dilys, Hamill, Joseph Martin, Bro, Rasmus & Solomon, Gemma C., 2022, I: Chemical Society Reviews. 51, 16, s. 6875-6892

Multivariate Approach to Single-Molecule Thermopower and Electrical Conductance Measurements

Hamill, Joseph Martin, Weaver, C. & Albrecht, T., 2 dec. 2021, I: The Journal of Physical Chemistry Part C.

Scale-Up of Room-Temperature Constructive Quantum Interference from Single Molecules to Self-Assembled Molecular-Electronic Films

Wang, X., Bennett, T. L. R., Ismael, A., Wilkinson, L. A., Hamill, Joseph Martin, White, A. J. P., Grace, I. M., Kolosov, O. V., Albrecht, T., Robinson, B. J., Long, N., Cohen, L. F. & Lambert, C., 2020, I: Journal of the American Chemical Society. 142, 19, s. 8555-8560 6 s.

Single Molecule Conductance of Electroactive Helquats: Solvent Effect

Kolivoška, V., Šebera, J., Severa, L., Mészáros, G., Sokolová, R., Gasior, J., Kocábová, J., Hamill, Joseph Martin, Pospíšil, L. & Hromadová, M., 2 dec. 2019, I: ChemElectroChem.

Fast Data Sorting with Modified Principal Component Analysis to Distinguish Unique Single Molecular Break Junction Trajectories

Hamill, Joseph Martin, Zhao, X. ., Mészáros, G., Bryce, M. . & Arenz, Matthias, 2 jan. 2018, I: Physical Review Letters. 120, 5 s., 016601.

Electrochemical control of the single molecule conductance of a conjugated bis(pyrrolo)tetraphiafulvalene based molecular switch

O'Driscoll, L. J., Hamill, Joseph Martin, Grace, I., Nielsen, B. W., Almutib, E., Fu, Y., Wenjing, H. 洪., Lambert, C. & Jeppesen, J. O., 2017, I: Chemical Science. 8, 9, s. 6123-6130 8 s.

Single-molecule detection of dihydroazulene photo-thermal reaction using break junction technique

Huang, C., Jevric, M., Borges, A. C., Olsen, S. T., Hamill, Joseph Martin, Zheng, J. T., Yang, Y., Rudnev, A., Baghernejad, M., Broekmann, P., Petersen, A. U., Wandlowski, T., Mikkelsen, Kurt Valentin, Solomon, Gemma C., Nielsen, Mogens Brøndsted & Hong, W., 2017, I: Nature Communications. 8, 7 s., 15436.

Molecular rectifier composed of DNA with high rectification ratio enabled by intercalation

Guo, C., Wang, K., Zerah-Harush, E., Hamill, Joseph Martin, Wang, B., Dubi, Y. & Xu, B., maj 2016, I: Nature Chemistry.

Three-State Single-Molecule Naphthalenediimide Switch: Integration of a Pendant Redox Unit for Conductance Tuning

Li, Y., Baghernejad, M., Qusiy, A., Zsolt Manrique, D., Zhang, G., Hamill, Joseph Martin, Fu, Y., Broekmann, P., Hong, W. , Wandlowski, T., Zhang, D. & Lambert, C., 9 nov. 2015, I: Angewandte Chemie International Edition.

Mapping the Details of Contact Effect of Modulated Au-Octanedithiol-Au Break Junction by Force-Conductance Cross-Correlation

Wang, K., Hamill, Joseph Martin, Zhou, J. & Xu, B., 17 dec. 2014, I: Journal of the American Chemical Society.

Measurement and control of detailed electronic properties in a single molecule break junction

Wang, K., Hamill, Joseph Martin, Zhou, J., Guo, C. & Xu, B., 8 sep. 2014, I: Faraday Discussions. 174, s. 91-104 14 s.

Structure determined charge transport in single DNA molecule break junctions

Wang, K., Hamill, Joseph Martin, Wang, B., Guo, C., Jiang, S., Huang, Z. & Xu, B., sep. 2014, I: Chemical Science. 5, 9, s. 3425-3431 7 s.

Measurement and understanding of single-molecule break junction rectification caused by asymmetric contacts

Wang, K., Zhou, J., Hamill, Joseph Martin & Xu, B., 7 aug. 2014, I: The Journal of Chemical Physics.

Force and conductance molecular break junctions with time series crosscorrelation

Hamill, Joseph Martin, Wang, K. & Xu, B., 7 jun. 2014, I: Nanoscale. 6, 11, s. 5657-5661 5 s.

Characterizing molecular junctions through the mechanically controlled break-junction approach

Xu, B., Hamill, Joseph Martin & Wang, K., 31 maj 2014, I: Reports in Electrochemistry. s. 1