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Publications

PUBLICATIONS

- **In Situ Gas-Cell Electron Microscopy Reveals Pressure-Selected Restructuring Pathways in AuRu Ammonia Catalysts.** *Journal of the American Chemical Society*
  McKeown-Green, A. S., Moradifar, P., Zhang, Z., Lim, C., Barnum, A., Yuan, L., Sinclair, R., Abild-Pedersen, F., Ophus, C., Dionne, J. A.
  2026; 148 (37): 39609-39622
- **In SituGas-Cell Electron Microscopy Reveals Pressure-Selected Restructuring Pathways in AuRu Ammonia Catalysts** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
  McKeown-Green, A. S., Moradifar, P., Zhang, Z., Lim, C., Barnum, A., Yuan, L., Sinclair, R., Abild-Pedersen, F., Ophus, C., Dionne, J. A.
  2026
- **Atmospheric-pressure ammonia synthesis on AuRu catalysts enabled by plasmon-controlled hydrogenation and nitrogen-species desorption** *NATURE ENERGY*
  Yuan, L., Bourgeois, B. B., Begin, E., Zhang, Y., Dai, A. X., Cheng, Z., Mckeown-Green, A. S., Xue, Z., Cui, Y., Xu, K., Wang, Y., Jones, M. R., Majumdar, et al
  2025
- **Low-energy nuclear fusion boosted by electrochemistry** *NATURE*
  McKeown-Green, A., Dionne, J. A.
  2025; 644 (8077): 614-615
- **Direct Exfoliation of Nanoribbons from Bulk van der Waals Crystals.** *Small (Weinheim an der Bergstrasse, Germany)*
  Saunders, A. P., Chen, V., Wang, J., Li, Q., Johnson, A. C., McKeown-Green, A. S., Zeng, H. J., Mac, T. K., Trinh, M. T., Heinz, T. F., Pop, E., Liu, F.
  2024: e2403504
- **Solution-phase sample-averaged single-particle spectroscopy of quantum emitters with femtosecond resolution.** *Nature materials*
  Shi, J., Shen, Y., Pan, F., Sun, W., Mangu, A., Shi, C., McKeown-Green, A., Moradifar, P., Bawendi, M. G., Moerner, W. E., Dionne, J. A., Liu, F., Lindenberg, et al
  2024
- **Millimeter-Scale Exfoliation of hBN with Tunable Flake Thickness for Scalable Encapsulation** *ACS APPLIED NANO MATERIALS*
  McKeown-Green, A. S., Zeng, H. J., Saunders, A. P., Li, J., Shi, J., Shen, Y., Pan, F., Hu, J., Dionne, J. A., Heinz, T. F., Wu, S. M., Zheng, F., Liu, et al
  2024