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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Line shapes in time- and angle-resolved photoemission spectroscopy explored by machine learning** *ELECTRONIC STRUCTURE*
Meyer, T. C., Siemann, G., Majchrzak, P., Seyller, T., Rigden, J., Zhang, Y., Springate, E., Sanders, C., Hofmann, P.
2025; 7 (4)
- **Nonmonotonic Band Flattening near the Magic Angle of Twisted Bilayer MoTe₂** *PHYSICAL REVIEW X*
Deng, Y., Holtzmann, W., Zhu, Z., Zaklama, T., Majchrzak, P., Taniguchi, T., Watanabe, K., Hashimoto, M., Lu, D., Jozwiak, C., Bostwick, A., Rotenberg, E., Fu, et al
2025; 15 (4)
- **Macroscopic Uniform 2D Moiré Superlattices with Controllable Angles.** *Journal of the American Chemical Society*
Zaborski, G., Majchrzak, P. E., Lai, S., Johnson, A. C., Li, Q., Saunders, A. P., Zhu, Z., Deng, Y., Lu, D., Hashimoto, M., Shen, Z. X., Liu, F.
2025
- **Resonantly enhanced photoemission from topological surface states in MnBi₆Te₁₀.** *Journal of physics. Condensed matter : an Institute of Physics journal*
Majchrzak, P. E., Jones, A., Volckaert, K., Pan, X. C., Hofmann, P., Chen, Y. P., Miwa, J. A., Ulstrup, S.
2025
- **Quasiparticle Gap Renormalization Driven by Internal and External Screening in a WS₂ Device** *PHYSICAL REVIEW LETTERS*
Sahoo, C., Veld, Y., Jones, A. J. H., Jiang, Z., Lupi, G., Majchrzak, P. E., Hsieh, K., Watanabe, K., Taniguchi, T., Hofmann, P., Miwa, J. A., Chen, Y. P., Rosner, et al
2025; 135 (5): 056401
- **A spatial- and angle-resolved photoemission spectroscopy beamline based on capillary optics at ASTRID2** *REVIEW OF SCIENTIFIC INSTRUMENTS*
Jones, A. J. H., Majchrzak, P., Volckaert, K., Biswas, D., Andersen, J., Hoffmann, S. V., Jones, N. C., Jiang, Z., Chen, Y. P., Jensen, M., Stenshoj, R., Bianchi, M., Hofmann, et al
2025; 96 (2)
- **Attosecond emission delay from atoms and molecules using multi-dimensional XUV interferometry** *NEW JOURNAL OF PHYSICS*
Wyatt, A. S., Lloyd, D. T., Chapman, R. T., Thornton, C., Majchrzak, P., Jones, A. J. H., Springate, E., O'Keeffe, K.
2024; 26 (11)
- **Access to the full three-dimensional Brillouin zone with time resolution, using a new tool for pump-probe angle-resolved photoemission spectroscopy.** *The Review of scientific instruments*
Majchrzak, P., Zhang, Y., Kuibarov, A., Chapman, R., Wyatt, A., Springate, E., Borisenko, S., Buchner, B., Hofmann, P., Sanders, C. E.
2024; 95 (6)
- **Programming twist angle and strain profiles in 2D materials** *SCIENCE*

Kapfer, M., Jessen, B. S., Eisele, M. E., Fu, M., Danielsen, D. R., Darlington, T. P., Moore, S. L., Finney, N. R., Marchese, A., Hsieh, V., Majchrzak, P., Jiang, Z., Biswas, et al
2023; 381 (6658): 677-681