

Stanford

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Publications

PUBLICATIONS

- **Concentric-flow electrokinetic injector enables serial crystallography of ribosome and photosystem II** *NATURE METHODS*
Sierra, R. G., Gati, C., Laksmono, H., Dao, E. H., Gul, S., Fuller, F., Kern, J., Chatterjee, R., Ibrahim, M., Brewster, A. S., Young, I. D., Michels-Clark, T., Aquila, et al
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- **Single-shot diffraction data from the Mimivirus particle using an X-ray free-electron laser.** *Scientific data*
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- **Anomalous Behavior of the Homogeneous Ice Nucleation Rate in "No-Man's Land"** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*
Laksmono, H., McQueen, T. A., Sellberg, J. A., Loh, N. D., Huang, C., Schlesinger, D., Sierra, R. G., Hampton, C. Y., Nordlund, D., Beye, M., Martin, A. V., Barty, A., Seibert, et al
2015; 6 (14): 2826-2832
- **Anomalous Behavior of the Homogeneous Ice Nucleation Rate in "No-Man's Land".** *journal of physical chemistry letters*
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- **Ultrafast X-ray probing of water structure below the homogeneous ice nucleation temperature** *NATURE*
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- **Sensing the wavefront of x-ray free-electron lasers using aerosol spheres** *OPTICS EXPRESS*
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2013; 21 (10): 12385-12394
- **Single-particle structure determination by correlations of snapshot X-ray diffraction patterns** *NATURE COMMUNICATIONS*
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- **Nanoflow electrospinning serial femtosecond crystallography** *ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY*
Sierra, R. G., Laksmono, H., Kern, J., Rosalie Tran, R., Hattne, J., Alonso-Mori, R., Lassalle-Kaiser, B., Gloeckner, C., Hellmich, J., Schafer, D. W., Echols, N., Gildea, R. J., Grosse-Kunstleve, et al
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- **High-Resolution Protein Structure Determination by Serial Femtosecond Crystallography** *SCIENCE*
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- **In vivo protein crystallization opens new routes in structural biology** *NATURE METHODS*

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● **Lipidic phase membrane protein serial femtosecond crystallography** *NATURE METHODS*

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● **Femtosecond free-electron laser x-ray diffraction data sets for algorithm development** *OPTICS EXPRESS*

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● **Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements** *NATURE PHOTONICS*

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● **Peptidyl alpha-ketoamides with nucleobases, methylpiperazine, and dimethylaminoalkyl substituents as calpain inhibitors.** *Journal of medicinal chemistry*

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● **Comparison of the internal energy deposition of direct analysis in real time and electrospray ionization time-of-flight mass spectrometry.** *Journal of the American Society for Mass Spectrometry*

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● **Analytical performance of a venturi-assisted array of micromachined ultrasonic electrosprays coupled to ion trap mass spectrometry for the analysis of peptides and proteins.** *Analytical chemistry*

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- **Characterization of solid counterfeit drug samples by desorption electrospray ionization and direct-analysis-in-real-time coupled to time-of-flight mass spectrometry.** *ChemMedChem*

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