



Junkun Pan

Ph.D. Student in Chemistry, admitted Autumn 2019

Publications

PUBLICATIONS

- **Pendant Group Functionalization of Cyclic Olefin for High Temperature and High-Density Energy Storage.** *Advanced materials (Deerfield Beach, Fla.)*
Shukla, S., Wu, C., Mishra, A., Pan, J., Charnay, A. P., Khomane, A., Deshmukh, A., Zhou, J., Mukherjee, M., Gurnani, R., Rout, P., Casalini, R., Ramprasad, et al
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- **Restricted Orientation Anisotropy Method for FVE Radii Characterization: Confirmed and Refined via the Study of Six Vibrational Probes** *MACROMOLECULES*
Pan, J., Charnay, A. P., Fica-Contreras, S. M., Fayer, M. D.
2024; 57 (3): 903-915
- **Influence of Internal Bond Rotation on Ultrafast IR Anisotropy Measurements and the Internal Rotational Potential.** *The journal of physical chemistry. B*
Charnay, A. P., Pan, J., Fayer, M. D.
2023
- **Synthetically tunable polymers, free volume element size distributions, and dielectric breakdown field strengths** *MATERIALS TODAY*
Fica-Contreras, S. M., Li, Z., Alamri, A., Charnay, A. P., Pan, J., Wu, C., Lockwood, J. R., Yassin, O., Shukla, S., Sotzing, G., Cao, Y., Fayer, M. D.
2023; 67: 57-67
- **Rethinking Vibrational Stark Spectroscopy: Peak Shifts, Line Widths, and the Role of Non-Stark Solvent Coupling.** *The journal of physical chemistry. B*
Fica-Contreras, S. M., Charnay, A. P., Pan, J., Fayer, M. D.
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- **Long Vibrational Lifetime R-Selenocyanate Probes for Ultrafast Infrared Spectroscopy: Properties and Synthesis.** *The journal of physical chemistry. B*
Fica-Contreras, S. M., Daniels, R., Yassin, O., Hoffman, D. J., Pan, J., Sotzing, G., Fayer, M. D.
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- **Free Volume Element Sizes and Dynamics in Polystyrene and Poly(methyl methacrylate) Measured with Ultrafast Infrared Spectroscopy.** *Journal of the American Chemical Society*
Fica-Contreras, S. M., Hoffman, D. J., Pan, J., Liang, C., Fayer, M. D.
2021
- **Pulse-shaped chopping: Eliminating and characterizing heat effects in ultrafast infrared spectroscopy.** *The Journal of chemical physics*
Hoffman, D. J., Fica-Contreras, S. M., Pan, J., Fayer, M. D.
2020; 153 (20): 204201
- **NMR Structural Analysis of Isolated Shaker Voltage-Sensing Domain in LPPG Micelles** *BIOPHYSICAL JOURNAL*
Chen, H., Pan, J., Gandhi, D. M., Dockendorff, C., Cui, Q., Chanda, B., Henzler-Wildman, K. A.

2019; 117 (2): 388–98

- **Specificity landscapes unmask submaximal binding site preferences of transcription factors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Bhimsaria, D., Rodriguez-Martinez, J. A., Pan, J., Roston, D., Korkmaz, E., Cui, Q., Ramanathan, P., Ansari, A. Z.

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