

Stanford



John Li

Ph.D. Student in Materials Science and Engineering, admitted Autumn 2021

Bio

BIO

Some things seem small...

Yet are extraordinarily strong!

JTLNano@Stanford.edu

Publications

PUBLICATIONS

- **Robust Superhydrophobic Surfaces via the Sand-In Method.** *ACS applied materials & interfaces*
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- **Turbostratic Boron-Carbon-Nitrogen and Boron-Nitride by Flash Joule Heating.** *Advanced materials (Deerfield Beach, Fla.)*
Chen, W., Li, J. T., Ge, C., Yuan, Z., Algozeeb, W. A., Advincula, P. A., Gao, G., Chen, J., Ling, K., Choi, C. H., McHugh, E. A., Wyss, K. M., Luong, et al
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- **Brushed Metals for Rechargeable Metal Batteries.** *Advanced materials (Deerfield Beach, Fla.)*
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2022: e2202668
- **Light-activated molecular machines are fast-acting broad-spectrum antibacterials that target the membrane.** *Science advances*
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- **Heteroatom-Doped Flash Graphene** *ACS NANO*
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- **Machine Learning Guided Synthesis of Flash Graphene.** *Advanced materials (Deerfield Beach, Fla.)*
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- **Sounds of Synthesis: Acoustic Real-Time Analysis of Laser-Induced Graphene** *ADVANCED FUNCTIONAL MATERIALS*
Li, V. D., Li, J. T., Beckham, J. L., Chen, W., Deng, B., Luong, D. X., Kittrell, C., Tour, J. M.
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- **Phase controlled synthesis of transition metal carbide nanocrystals by ultrafast flash Joule heating.** *Nature communications*
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- **Ultrafast and Controllable Phase Evolution by Flash Joule Heating** *ACS NANO*
Chen, W., Li, J., Wang, Z., Algozeeb, W. A., Duy Xuan Luong, Kittrell, C., McHugh, E. A., Advincula, P. A., Wyss, K. M., Beckham, J. L., Stanford, M. G., Jiang, B., Tour, J. M.
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- **High-Resolution Laser-Induced Graphene from Photoresist** *ACS NANO*
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- **Millisecond Conversion of Metastable 2D Materials by Flash Joule Heating** *ACS NANO*
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- **Nanocars with Permanent Dipoles: Preparing for the Second International Nanocar Race** *JOURNAL OF ORGANIC CHEMISTRY*
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- **Laminated Laser-Induced Graphene Composites** *ACS NANO*
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- **Self-Sterilizing Laser-Induced Graphene Bacterial Air Filter** *ACS NANO*
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- **Laser-Induced Graphene Triboelectric Nanogenerators** *ACS NANO*
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