In an effort to contribute to the search for alternative fuel sources, we propose to examine the excited state behavior of piezoelectric ZnTe nanowires, which have applications as mechanical energy harvesters. Our initial work has focused on designing a replicable synthesis for chemical vapor deposition (CVD) growth of uniform ZnTe nanowires. With success, we now begin an ultrafast spectroscopic study of the carrier dynamics in ZnTe nanowires.

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