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| UTC Project Information |
| Project Title | Instant COVID-19 Diagnostic Devices on the Go to Improve Transportation Safety |
| University | University of Texas at El Paso (UTEP) |
| Principal Investigator | XiuJun (James) Li |
| PI Contact Information | Xli4@utep.edu  |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Center for Advancing Research in Transportation Emissions, Energy, and Health (CARTEEH): CARTEEH: $75,000Other Sources: $37,500 |
| Total Project Cost | $112,500 |
| Agency ID or Contract Number | 69A3551747128 |
| Start and End Dates | 02/01/2021-07/31/2022 |
| Brief Description of Research Project | Public health can impact transportation significantly. The ongoing COVID-19 pandemic caused by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is one of such serve cases, which has resulted in a 96% reduction in air travelers from April to July 2020. Instant early detection of coronavirus on the go can prevent the wide spread of COVID-19 in public transportation vehicles, thus improving transportation health and safety. Therefore, this project aims to develop an “on-the-Go” COVID-19 quantitative diagnostic microdevice integrated with reverse transcription–LAMP (RT-LAMP) for instant early detection of COVID-19 in public transportation vehicles to improve transportation safety. |
| Describe Implementation of Research Outcomes (or why not implemented)Place Any Photos Here |  |
| Impacts/Benefits of Implementation (actual, not anticipated) |  |
| Web Links* Reports
* Project website
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