

safety and manufacturing processes.

The performance of the team's solution rivals larger, more costly fiber-pumped oscillators by yielding 2.5-times the peak power compared to previous Cr:ZnSe oscillators at 45 fs pulse durations and delivers outstanding low-noise performance.

Other efforts to directly pump Cr:ZnS/ZnSe crystals using diodes in the 1.5-1.6 μm regime have been hampered by heat-related issues. SemiNex InP diodes are designed to provide the best thermal performance and highest brightness at these wavelengths in the market today.

"SemiNex is constantly looking to participate with companies and universities to develop innovative technologies that will open new markets for us to participate in. This new approach will impact the availability of lower cost/higher performance portable spectroscopic devices in the mid-IR range," commented Ed McIntyre, head of Business Development at SemiNex Corporation.

The results of the project were presented at the CLEO conference during this year's Laser World of Photonics in Munich, and have recently been published in the journal Optics Express². For inquiries about the research team, please contact Nathalie Nagl at Nathalie.Nagl@physik.uni-muenchen.de.

Visit SemiNex at Booth #163 at Photonics West Moscone Center, San Francisco, CA, or schedule a meeting with Hanyu by clicking [here](#).

¹ https://www.photonics.com/Articles/Life_Sciences_Demand_Spurs_Spectroscopy_Market/a61584

² <https://www.osapublishing.org/oe/abstract.cfm?uri=oe-27-17-24445>

About SemiNex:



SemiNex Corporation designs and manufactures high-power semiconductor lasers for use in military, medical, and industrial applications. SemiNex's unique product designs enable lasers with high powers and improved thermal performance. SemiNex diode technology dramatically lowers the cost per watt of laser power, especially compared to alternate technologies such as solid-state lasers and fiber lasers.

Learn more at www.seminex.com.

For additional information please contact SemiNex Corporation at sales@seminex.com.