

Guo Yusheng Laser Diode



Guo Yusheng Laser Diode



Herein, a straightforward and effective strategy is presented for boosting the lifetime of PeLEDs by employing an alternating current (AC)-driving mode.



Here, we overcome these issues and demonstrate the first electrically pumped vertical-cavity surface-emitting laser (VCSEL) diode based on two-dimensional (2D) halide perovskites.



Professor Chunlei Guo. The Lab for High-Intensity Femtosecond Laser Laboratory. Institute for Optics at The University of Rochester in New York State USA.



Optimizing the detuning, we were able to observe monochromatic laser emission with a sub-100 kHz linewidth. The Q-factor of the resonator measured in this regime exceeded 109.



Herein, a straightforward and effective strategy is presented for boosting the lifetime of PeLEDs by employing an alternating current (AC)-driving mode.



Our work suggests a broad application prospect of perovskite materials for high-brightness LEDs and ultimately a potential for solution-processed electrically pumped laser diodes.



Collectively, these strategies are needed to overcome existing barriers and advance the development of electrically pumped perovskite laser diodes for practical applications.



Here, we overcome these issues and demonstrate the first electrically pumped vertical-cavity surface-emitting laser (VCSEL) diode based on two-dimensional (2D) halide perovskites.



Guo et al. shrunk a mode-locked laser down to the size of an optical chip. Combining a III-V gain medium with a lithium-niobate phase modulator, they demonstrated the operation of a mode ...

Contact Us

For more information, pricing, or custom data center solutions, please contact us:

Website: <https://yoahorroenergia.es>

Email: hello@yoahorroenergia.es

Phone: +233 54 318 7269

Address: Plot 28, Spintex Road, Accra, Greater Accra, Ghana

This document is for informational purposes only. Specifications subject to change without notice.

