

Guo Yusheng Laser Diode



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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.



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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.



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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.



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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 ...

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