

Abstracts

Optically Pumped Submillimeter-Wave Sources

T.Y. Chang. "Optically Pumped Submillimeter-Wave Sources." 1974 Transactions on Microwave Theory and Techniques 22.12 (Dec. 1974, Part I [T-MTT] (Special Issue on the Proceedings of the First International Conference on Submillimeter Waves and Their Applications)): 983-988.

Optical pumping of polar molecules by means of infrared lasers is expected to lead to thousands of laser lines throughout the submillimeter-wave region. Already, 282 new laser lines between 34 μm and 1.814 mm in 18 different molecules have been reported. Very stable CW operation, very high pulsed output, linear polarization, high gain, and many other advantages over discharge excitation are offered.

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