

Localized Vibration-Formation by Driving Raman Active Molecular Vibrations

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This paper presents a new approach to localize molecular vibrations. By analyzing YX_2 type molecules we show that localized vibrations can be created if we stimulate a set of the molecule's Raman-active normal modes properly by lasers.

Key words: Localized Vibrational Mode; Raman-active Vibration.