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Longitudinal magneto-optical Kerr effect in two-dimensiona' orderly nanocorrugation made from magnetic quadrilayer times

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ABSTRACT

In this report, it shows the results or , j int experimental and theoretical investigation focused on magneto-option properties of two-dimensional orderly nanocorrugation made from quadrilay.⁻ films. Our results show the optical and magneto-optical anisotropies in u.e large-area of two-dimensional orderely nanocorrugation film. Enhracement of the magneto-optical signal in the nanostructure is clearly observed with respect to the surface plasmon resonance and cavity effect, which varies with an azimuthal angle of incident plane. It is noteworthy that the magneto-optical Kerr are plasmon resonance and cavity by the coupling between or ace plasmon resonance and cavity effect.

Keywords Magne to-optical materials; Surface plasmons; Kerr effect.

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