

RESEARCH ARTICLE

Dynamic polarization rotation and vector field steering based on phase change metasurface

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Supporting Information

Discussion

Although the actual full structure contains different neighbor element, the coupling among the neighbor elements is very weak due to the large distance between the adjacent elements. We give an example of the magnetic field distributions in x - z plane and y - z plane for the actual full structure containing different neighbor elements with A-state. It can be seen that the energy is strongly confined within the GST elliptic cylinder, indicating that the effect of coupling between adjacent elements is weak and can be ignored.

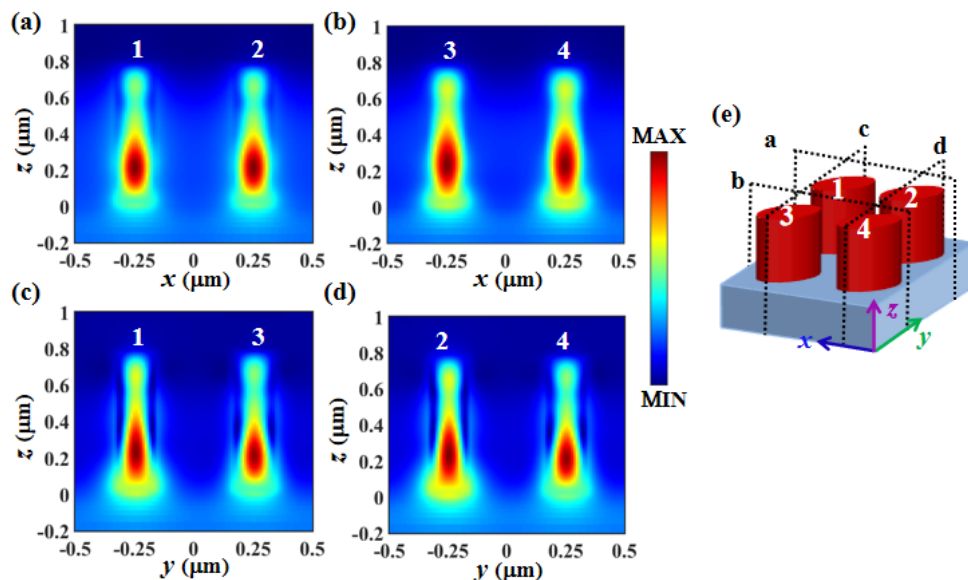


Fig. S1 The magnetic field distributions in x - z plane of the cross section (a) a and (b) b of the actual full structure, and in y - z plane of the cross section (c) c and (d) d of (e) the actual full structure.