Electronic Supplementary Material (ESI) for Nanoscale.

Supporting Information

Fano Resonances in Three-Dimensional Dual Cut-wire Pairs

Xingzhan Wei,[1]* Matteo Altissimo,[2] Timothy J. Davis,[2,3] and Paul Mulvaney[1]*

[1]School of Chemistry and Bio21 Institute, University of Melbourne, Parkville, Victoria, 3010, Australia

[2]Melbourne Centre for Nanofabrication, ANFF, 151 Wellington Road, Clayton, Victoria 3168, Australia

[3]CSIRO, Materials Science and Engineering, Private Bag 33, Clayton, VIC, 3168, Australia

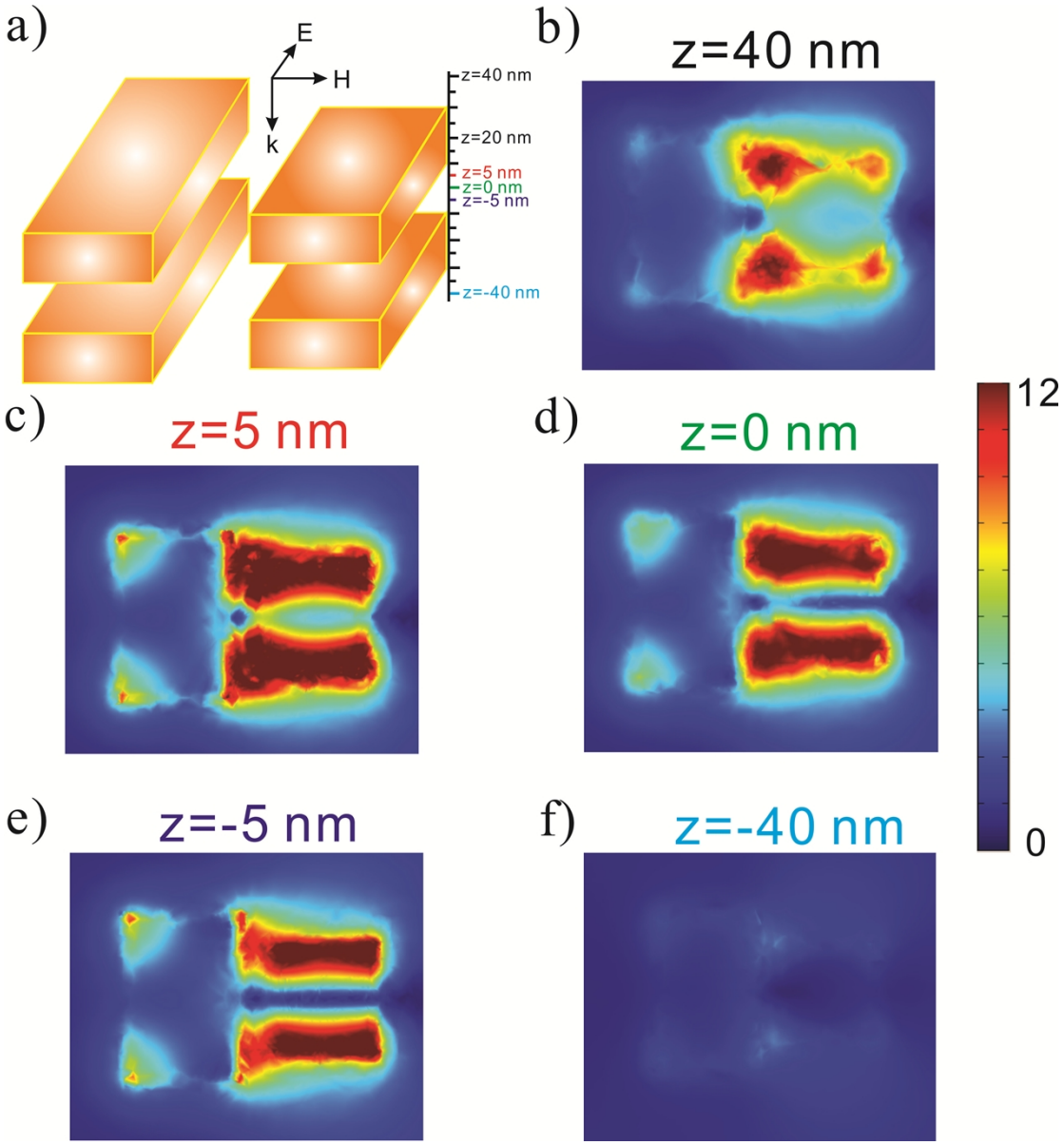

Figure S1: (a) Schematic view of the Fano resonance system, and description of the vertical coordinate values; (b)-(f) Electric field intensity enhancement at different vertical planes, z = 40 nm, 5 nm, 0 nm, -5 nm and -40 nm.

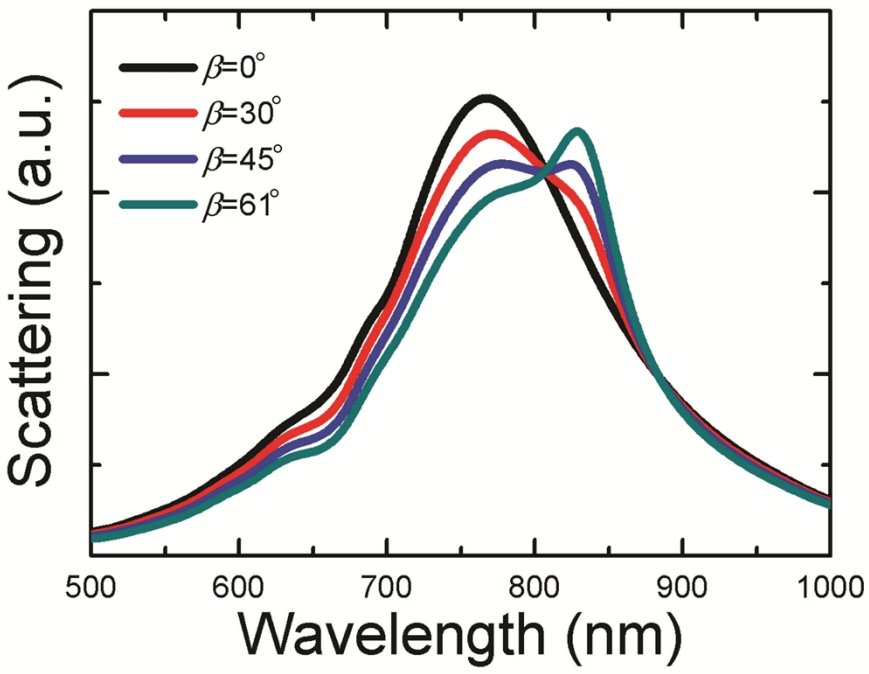

Figure S2: Modeled scattering spectra versus incidence angle β. Note the dip developing in the spectra at around 805 nm as the angle increases.

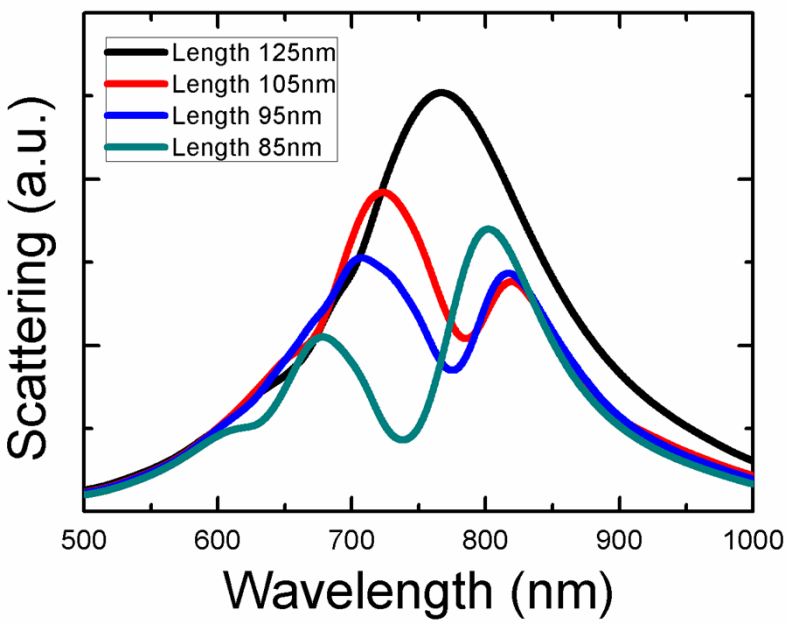

Figure S3: Modeled scattering spectra as a function of cut-wire length (l_2) under normal illumination condition.