Electronic Supporting Information

**Hybrid plasmonic gap modes in metal film-coupled dimers and their physical origins revealed by polarization resolved dark field spectroscopy**

Guang-Can Li,* Yong-Liang Zhang* and Dang Yuan Lei*  
* Department of Applied Physics, The Hong Kong Polytechnic University, Hong Kong, China

![Figure S1](image1.png)  
Figure S1. Scattering spectra of two nanosphere dimers measured under un-polarized light excitation. The scalar bars in the insets are 200 nm. As can be seen, the size difference between the two constitute nanospheres of each dimer is negligible.

![Figure S2](image2.png)  
Figure S2. Scattering spectrum of a nanosphere dimer measured under s-polarized light excitation. The scalar bar in the inset is 100 nm. The plasmon resonance at around 530 nm is clearly identified.