

Electronic Supplementary Information for

**Binaphthyl-incorporated π -conjugated polymer/gold
nanoparticles hybrids: A facile size- and shape-tailored synthesis**

*Sun Gu Song,^a Seonggyun Ha,^a Kyeong-Bae Seo,^b Jookyung Lee,^a Tae-Lim Choi,^b Thathan
Premkumar,^{*a, c} and Changsik Song^{*a}*

^aDepartment of Chemistry, Sungkyunkwan University, Seobu-ro 2066, Jangan-gu, Suwon-si, Gyeonggi-do, 16419, Republic of Korea. ^bDepartment of Chemistry, Seoul National University, Gwanak-ro 1, Seoul 08826, Republic of Korea. ^cUniversity College, Sungkyunkwan University, Seobu-ro 2066, Jangan-gu, Suwon-si, Gyeonggi-do, 16419, Republic of Korea

*E-mail: T.P: tprem@skku.edu; C.S: songcs@skku.edu

Table of Contents

Fig. S1	SEM images of PBNT/AuNP hybrids -----	S2
Fig. S2	TEM images of PBNT2/AuNPs prepared in toluene with triangular or hexagonal shapes. -----	S3
Fig. S3	Time dependent TEM images of PBNT2/AuNP hybrids -----	S4

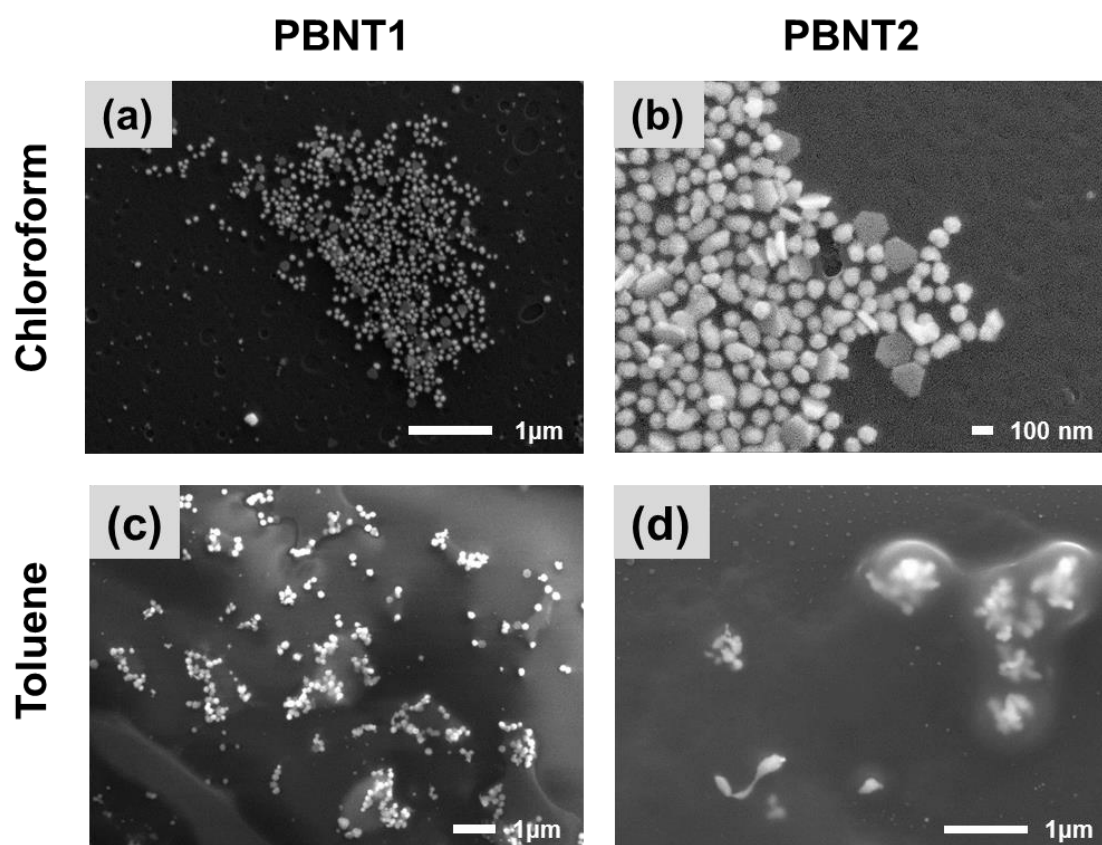


Fig. S1 SEM images of PBNT/AuNP nanocomposites synthesized in CHCl_3 with (a) PBNT1 and (b) PBNT2. PBNT/AuNP synthesized in toluene with (c) PBNT1 and (d) PBNT2.

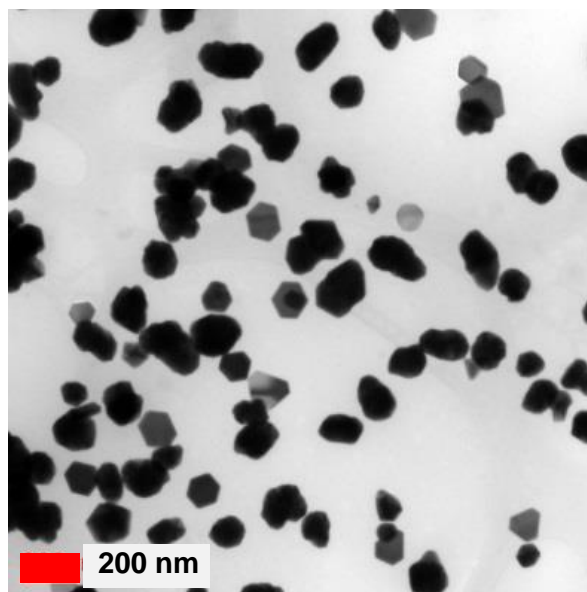
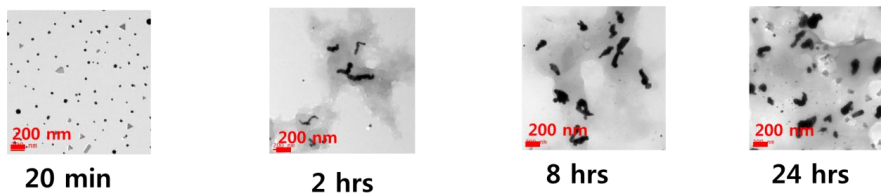


Fig. S2 TEM images of PBNT2/AuNPs prepared in toluene with triangular or hexagonal shapes.

Time dependent PBNT2/AuNP growth in toluene



Time dependent PBNT2/AuNP growth in chloroform

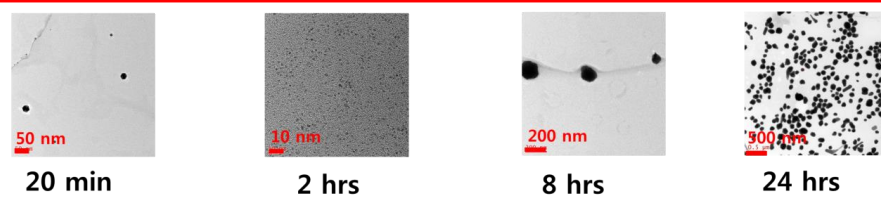


Fig. S3 TEM images of PBNT2/AuNP nanocomposites by the reaction time.