

Supporting Information

Table S1. Aliquots used for the synthesis of mono– and bimetallic nanoparticles on the alginate beads.

	$V_{Cu} (\mu L)$	$V_{Pt} (\mu L)$
<i>Cu</i>	262	-
<i>CuPt 3:1</i>	197	167
<i>CuPt 1:1</i>	131	335
<i>CuPt 1:3</i>	66	500
<i>Pt</i>	-	670

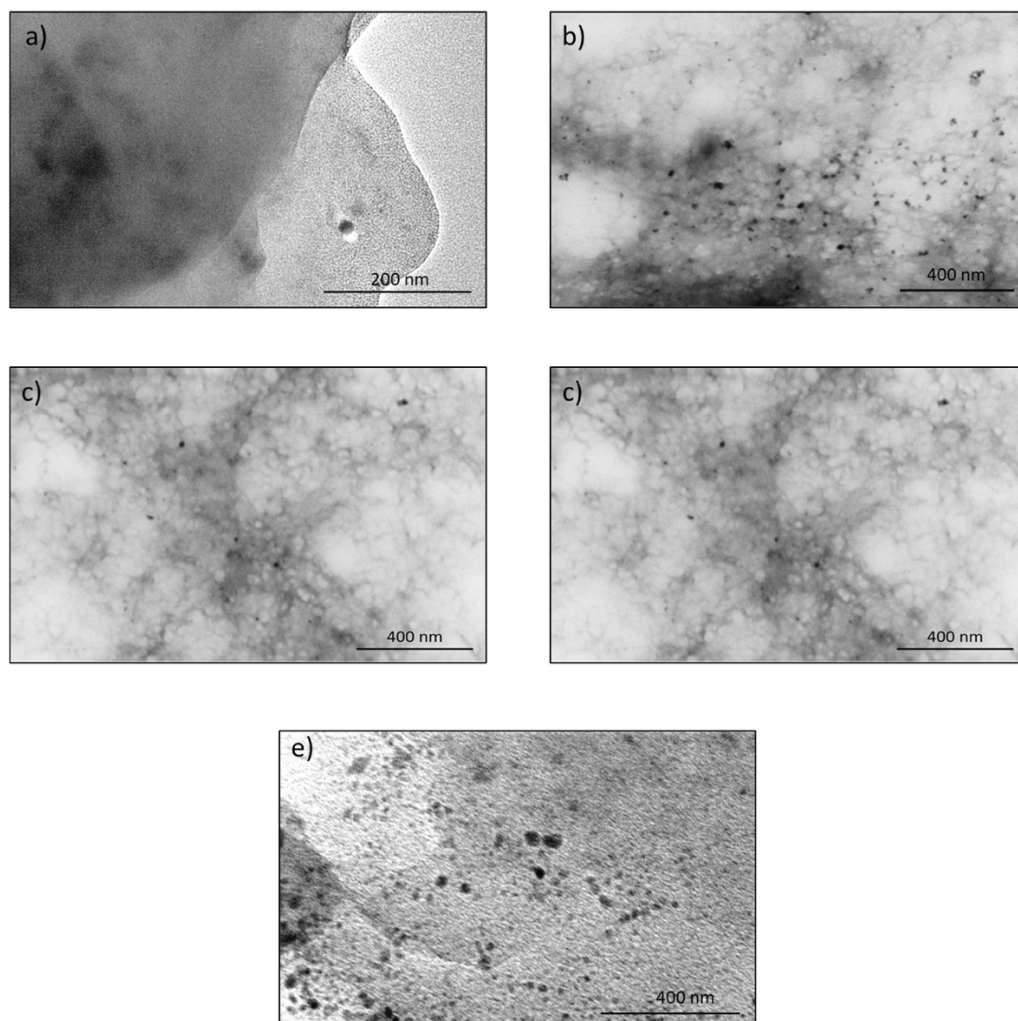


Figure S1. TEM of mono– and bimetallic nanoparticles a) Cu, b) CuPt 3:1, c) CuPt 1:1, d) CuPt 3:1 and e) Pt.

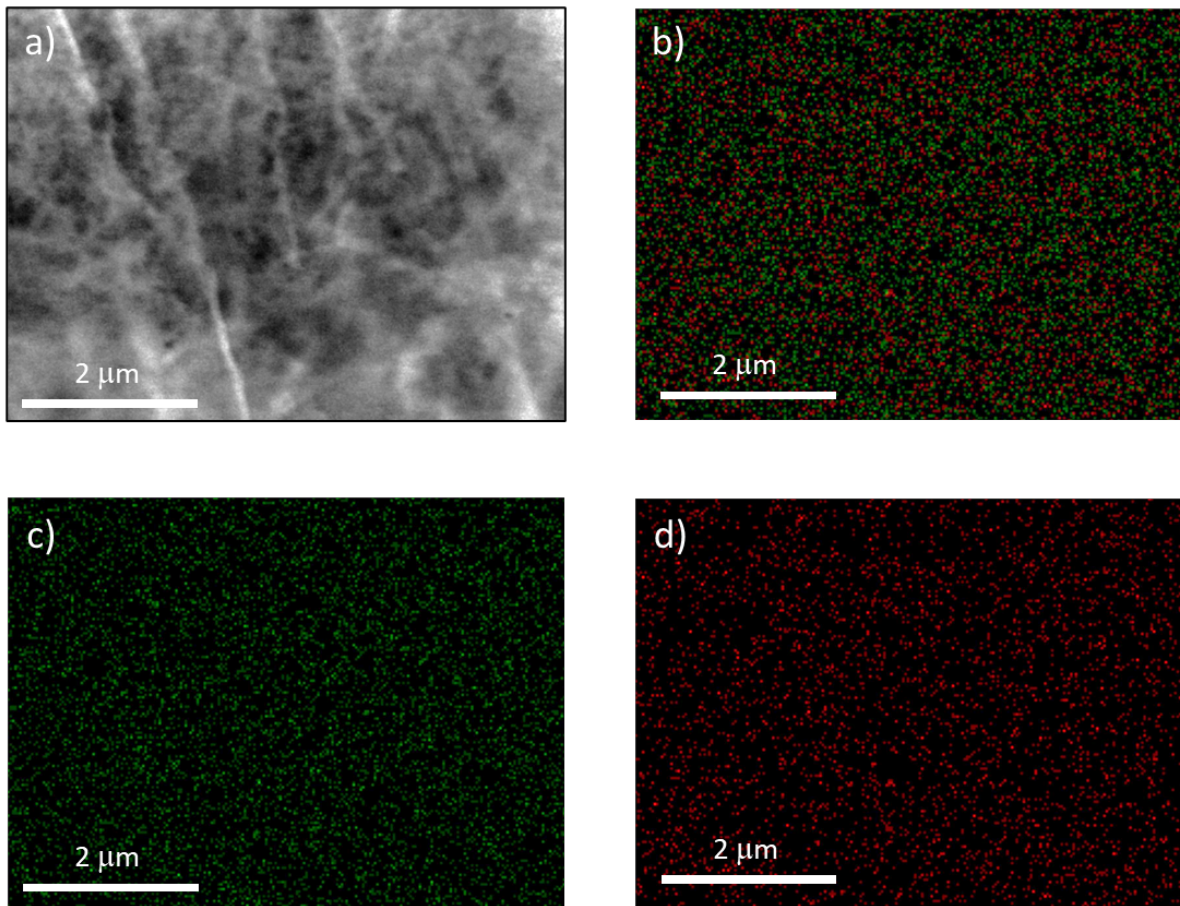


Figure S2. a) FESEM picture of alginate hydrogel loaded with CuPt 1:1 nanoparticles. b) EDX mix mapping of Cu and Pt atoms, Cu and Pt atoms.

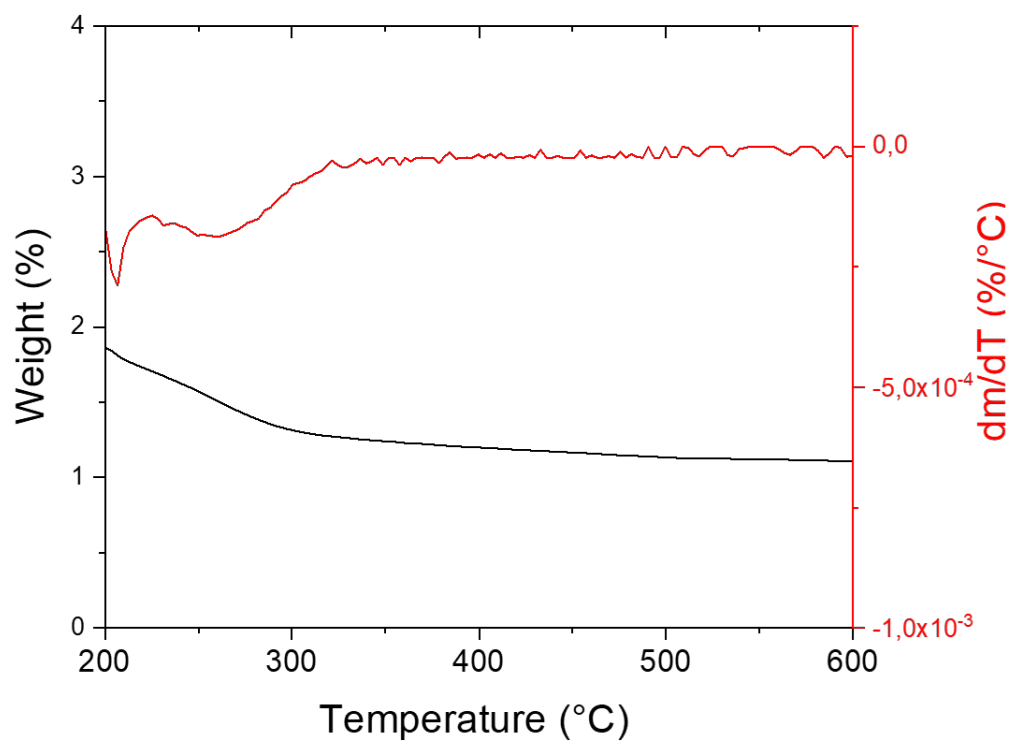


Figure S3. Amplified TGA and DTG profiles of alginate beads loaded with CuPt 1:1 into the region between 200 and 600 °C.