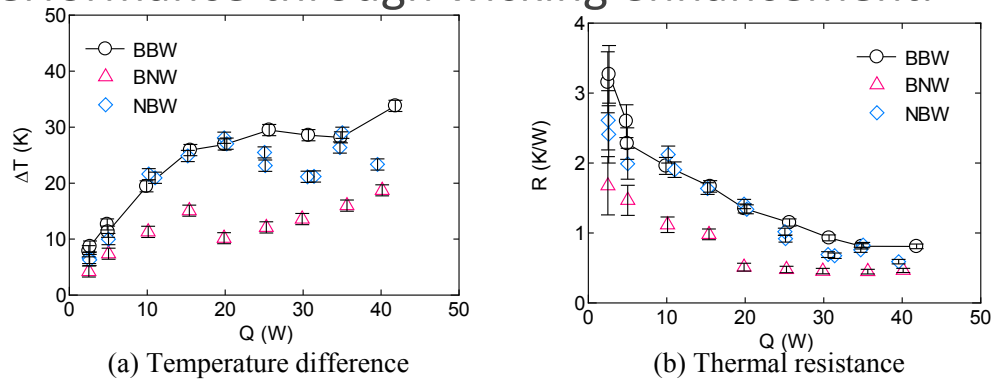
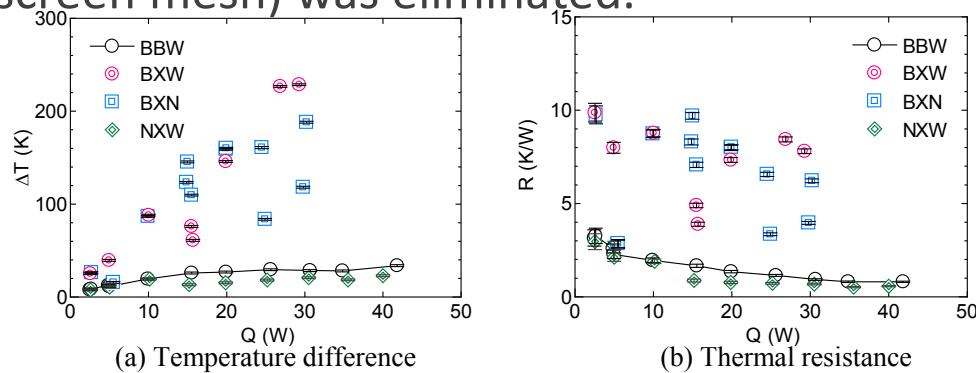


Nanoparticle layer as a heat pipe wick

▶ For the heat pipe with nanoparticle-layer pre-coating on the screen mesh, improve the heat transfer performance through wicking enhancement.



▶ For the heat pipe with nanoparticle-layer pre-coating on the container inner wall, good heat transfer performance was achieved even when the wick device (screen mesh) was eliminated.



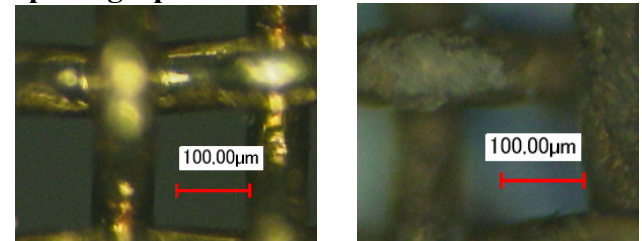
• Wettability of copper tube



(a) Bare tube

(b) Nanoparticle-layer coated tube

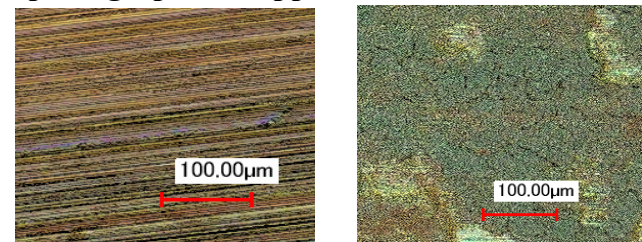
• photographs of screen mesh



(a) Bare mesh

(b) Nanoparticle-layer coated mesh

• photographs of copper tube



(a) Bare tube

(b) Nanoparticle-layer coated tube