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Ultra-wide bandwidth thermoelectric medical transducer from all-inorganic metal nanocrystals exploiting thermal conductance limit (GW/m²K) and ultrasonic sensitivity (>1 mV/Pa) by phosphonic ligand exchange-induced ultrafast interfacial charge transfer and phonon-assisted hopping

Ultra-sensitive, ultra-wide bandwidth thermoelectric medical transducer from all-inorganic metal nanocrystals. Image credit: Yong Zhang, Chen Kang, Xiaoliang Zhang, Zhe Wu, Kaiyuan Wang, Zhe Wu, Xiaoliang Zhang, Zhe Wu, Kaiyuan Wang, Zhe Wu, Kaiyuan Wang, Zhe Wu, Kaiyuan W