

5. Conclusions

We proposed evaluation method of thermal conductivity of individual CNT in liquid using temperature sensitive micro pillars.

We succeeded in measuring the thermal conductivity of individual CNT in liquid. As a result, thermal conductivity of that was 1.2 ± 0.3 kW/mK. In the future, we can apply this method to evaluate the thermal conduction of individual CNT with different diameter in different condition such as air and vacuumed condition.