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수계에서 화학적 처리 방법 그리고 비이온계 분산제를 사용한 카본 나노 튜브의 특별한 분산

The unique dispersion of carbon nanotube using chemical treatment method and nonionic dispersant in water system

<u>이해성</u>, 이지운, 이종면[†] 삼성전기(주) 중앙연구소 eMD Lab (m714 lee@samsung com[†])

We have used two method to disperse carbon nanotube First, we have dispersed CNT without dispersant or additives after had formed carboxyl group of hydrophilic functional group Because this functional group has electrostatic repulsion and solvation effect in water system Second, we have dispersed CNT using nonionic dispersant Triton X-100 we have analyzed dispersion value using FE-SEM image and Turbiscan which used Near IR light source. We have analyzed dispersion stability and dispersion value with time change to measure transmission value for 12hrs.