NANOPARTICLES FOR PERYLENE CLUSTERING RETARDATION

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The understanding of the cluster prenucleation stage is crucial for elucidating the nucleation stage of organic crystal growth [1, 2]. We found that the introduction of Ni or NiO catalyst nanoparticles into the perylene-based environment significantly delays cluster formation.

Fig.1 The relationship between cluster formation time and cluster size



Specifically, the clustering process is notably more delayed with Ni nanoparticles in comparison to NiO nanoparticles.

REFERENCES

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