

عنوان مقاله:

Preparation of micron-sized, monodisperse nonspherical raspberry-like particles via seeded dispersion polymerization of allyl methacrylate

محل انتشار:

کنگره بین المللی نوآوری در مهندسی و توسعه تکنولوژی (سال: 1395)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Soleyman Hosseinzadeh - *Department of Chemical Engineering, Payame Noor University, Tehran, Iran*

Shahryar Pashaei - *Department of Chemistry, Payame Noor University, Tehran, Iran*

Roshan Javanifar - *Department of Chemical Engineering, Payame Noor University, Tehran, Iran*

Omid Kaleshi - *Department of Chemical Engineering, Payame Noor University, Tehran, Iran*

خلاصه مقاله:

In this work, the preparation of nonspherical particles via seeded dispersion polymerization of ethyl hexyl methacrylate (EHMA) in the presence of allyl methacrylate (AMA) seed particles in the methanol/water media using poly (vinyl pyrrolidone) (PVP) as a dispersant in the presence of decane droplets was discussed. The effect of various polymerization conditions such as EHMA/AMA seed particles weight ratio on the shapes of the obtained AMA particles was studied. The experimental results showed that particles with more nonspherical shapes were obtained with increasing the EHMA/PAMA which is because of increasing the absorption amounts of hydrocarbon by second polymer domains.

کلمات کلیدی:

Composite particles, Morphology, Nonspherical particles, Seeded dispersion polymerization

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/575212>

