

In this issue

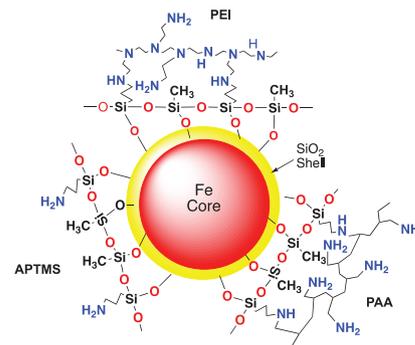
Emile Deluca, Ryan Latterman
and Edward Rosenberg

Core-shell Fe-SiO₂-polyamine magnetic nanoparticles for metal recovery using a continuous flow pipeline reactor

<https://doi.org/10.1515/pac-2017-1003>
Pure Appl. Chem. 2018; 90(8): 1225–1235

Conference paper:

Magnetite nanoparticles were coated with a SiO₂ Shell and then modified with polyamines for applications in Metal ion recovery.



Keywords: MAM-17; metal recovery; nano-materials; polyamines.

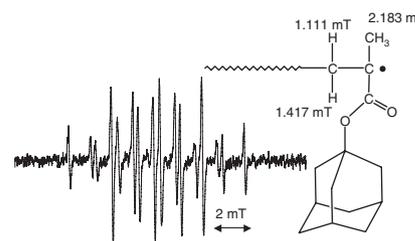
Atsushi Kajiwara

Characterizations of radicals formed in radical polymerizations and transfer reactions by electron spin resonance spectroscopy

<https://doi.org/10.1515/pac-2018-0401>
Pure Appl. Chem. 2018; 90(8): 1237–1254

Conference paper: ESR

spectra of propagating radicals of adamantyl methacrylate observed in toluene at 120 °C. 16-line signals due to inequivalent β-protons were clearly observed. Based on the results of an ATRP/ESR combination method, ESR/EPR spectra of propagating radicals observed during actual radical polymerizations can be used for kinetics treatments as the spectra of real propagating radicals with sufficiently long chain lengths.



Keywords: 1,5-H shift; alternating copolymerization; ATRP; ESR/ EPR; initiation; POLYCHAR-25; propagation; radical polymerization; radical reactions; RAFT.