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	Imaging the dynamics of nanomaterials in realistic media			
	with a transmission electron microscope			
Damien Alloyeau				
	MEANS MPOM			
C Station States	rs			









Kinetics effects				
Reaction limited Growth		Diffusion limited Growth		
Electron dose				
Magnification 100 k dose = 10 ⁶ Gy/s	Magnification 250 k dose = 6.2 10 ⁶ Gy/s	Magnification 400 k dose = 1.6 10 ⁷ Gy/s		
2 <u>00 nm</u>	200 nm	SO mm		
The for requires reducing	rmation of facetted nanopa g reaction rate < 3 atomic la	articles ayers per seconds		

Alloyeau et al. Nanoletters 15, 2574 (2015)

































