

Supplementary Information

SI1: Characterization of MENM in original papers cited. Orange indicates that no information is given on coating or dispersant while otherwise the characterisation is sufficient.

	Origin	Chemistry	Shape/size					Surface	Controls			
Article	Producer, synthesis	Core material	nominal	DLS	UV-vis	filtration/centrifug.	REM, TEM	Coating / dispersant	Zero	Salt	Bulk	Dispersant
Allard et al. 2013	1	1				X-ray			1			
Amorim et al. 2012	1	1	1	1			1	powder	1	1		
Arora et al. 2012	1	1			1		1		1			
Cañas et al. 2011	1	1	1	1			1		1	1		
Chen et al. 2015	1	1					1	1		1	1	
Cherchi & Gu 2010	1	1	1	1				powder	1			
Choi & Hu 2008	1	1			1		1	1	1	1		
Coleman et al. 2010	1	1	1	1			1	powder	1		1	
Colman et al. 2013	1	1					1	1	1	1		
Cornelis et al. 2012	1	1	1	1		1	1	1	NA	N A	N A	N A
Coutris et al. 2012	1	1					1	1		1		
De la Torre-Roche et al. 2015	1	1				1	1				1	
Dimkpa et al. 2014	1	1	1					surface charge	1	1		
Dimkpa et al. 2015	1	1	1				1	surface charge	1			
Echavarri-Bravo 2015	1	1					1		1			1
Fajardo et al. 2015	1						1	1	1			
Fan et al. 2014	1	1	1						1			
Feng et al. 2013	1	1					1	1	1		1	
Garcia et al. 2012	1	1		1			1	1	1			
Golobic et al. 2012	1	1					1	1	1	1		
Gomes et al. 2013	1	1	1	1			1	1	1	1		
Hawthorne et al. 2014	1	1				1					1	
He et al. 2011	1	1					1		1	1		
Heckmann et al.	1	1	1	1			1	1	1	1	1	

2011												
Hu et al. 2010	1	1					1		1			
Huang et al. 2014	1	1					1		1			
Jacob et al. 2013	1	1	1						1		1	
Judy et al. 2011	1	1	1	1			1	1	1			
Judy et al. 2012	1	1	1				1	1	1			
Judy et al. 2015	1	1		1				1	1		1	
Kool et al. 2011	1	1					1	1	1	1		
Lapied et al. 2011	1	1	1					1	1			
Larue et al. 2014	1	1		1				1	1	1		
Manzo et al. 2011	1	1	1					powder	1	1		
McShane et al. 2012	1	1	1				1	1	1			
Novo et al. 2015	1	1					1	1	1	1		
Pipan-Tkalec et al. 2010	1	1	1				1	1	1	1	1	
Priester et al. 2009	1	1					1	1	1	1		
Priester et al. 2012	1	1	1					powder	1			
Ratnasekhar et al. 2015	1	1		1			1		1		1	
Reyes et al. 2015	1	1		1						1		
Roh et al. 2010	1	1					1		1			
Rousk et al. 2012	1	1	1						1	1	1	
Saccà et al. 2014	1	1	1					1	1			
Schlich et al. 2013	1	1	1				1	1	1	1		1
Shoults-Wilson et al. 2011	1	1	1	1			1	1	1			
Tourinho et al. 2015	1	1		1			1	1	1	1		
Tourinho et al. 2015	1	1					1		Not applicable to test design			
Tourinho et al. 2016	1	1		1			1	1	1			
Unrine et al. 2012	1	1		1	1		1	1	1			
van der Ploeg et al. 2014	1	1	1					1	1	1		1
Waalewijn-Kool et al. 2014	1	1	1	1			1	1	1	1		
Wang et al. 2009	1	1	1						1	1	1	
Werlin et al. 2011	1	1	1					1	1	1		
Whiteside et al. 2009	1	1	1					1				
Xu et al. 2015	1	1	1	1				not clear	1			
Yang et al. 2012	1	1		1			1	1	1			

Yasur et al. 2015	1	1		1			1	1		1		
Yeo & Nam 2013	1	1	1	1			1	1	1			
Yin et al. 2012	1	1	1				1	1	1	1		
Zheng et al. 2011	1	1	1	1			1		1			
Zheng et al. 2012	1	1		1			1		1			