

On line material

ZnO Powders As Multi-Facet Single Crystals

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UHV-FTIR ZnO smoke present work	UHV-FTIR & DRIFT ZnO powder Noei 2008	HREELS ZnO(000 $\bar{1}$) Noei 2008	HREELS ZnO(10 $\bar{1}$ 0) Wang2006
~ 3690	3687		3700
3673	3670-3672		3670
Weak bands	3656		3645

not shown in Fig. 1	3639		
3617	3620	3621	
3555	3555-3564		
3420	3448		
3240	broad bands		3195
3150	with shapes		
2880	similar to		
2530	present work (Figs. 5-6)		
2280			
2025			
1680			
1617	1617		
1564			
1536			

Table S1. Analysis of ZnO smokes exposed to water vapor by infrared spectroscopy. Frequencies from spectra shown in Fig. 1 are listed and compared to data from Wöll's group recorded either on ZnO powder or on ZnO(10 $\bar{1}$ 0) and (000 $\bar{1}$) single crystals. Frequencies are given in cm⁻¹.