

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 with shapes similar to present work (Figs. 5-6) | | 3195 |
| 3150 | | | |
| 2880 | | | |
| 2530 | | | |
| 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 $^{-1}$.