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Supplement:



Figure S1. IR spectrum of Sn₂O(CN₂).



Figure S2. Reflection spectrum of $Sn_2O(CN_2)$ (black), $Sn(CN_2)$ (red) and Sn powder (blue) against $BaSO_4$ as a white standard.



Figure S3. EDX spectrum of Sn₂O(CN₂).



Figure S4. Fatband analysis of the contribution of the 5s orbital of Sn to the band structure of $Sn_2O(CN_2)$. Bigger points indicate stronger contribution.



Figure S5. COHP curve of the Sn–O interactions in SnO.

element	series	w.%Theo	w.%	σ w.%
Sn	L	80,91	70,68	1,80
Ν	К	9,55	13,88	0,54
С	к	4,09	7,86	0,31
0	к	5,45	7,57	0,34

Table S1. EDX- results