



## Erratum: In Situ IR Study of the Anodic Polarization of Gold Electrodes in Polar Aprotic Solvents: DMSO and DMF Solutions of Cyanate, Thiocyanate and Selenocyanate Ions [*J. Electrochem. Soc.*, 161, H738 (2014)]

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On page H739, right column, the caption for Figure 1 should be

**Figure 1.** Cyclic voltammograms of the gold electrode in DMF and DMSO solvents containing pseudohalide ions and 0.1 mol L<sup>-1</sup> TBAP (sweep rate = 20 mV/s): 0.025 mol L<sup>-1</sup> KOCN in (a) DMF and (b) DMSO, 0.05 mol L<sup>-1</sup> NaSCN in (c) DMF and (d) DMSO, 0.05 mol L<sup>-1</sup> KSeCN in (e) DMF and (f) DMSO. Arrows show the path actually traced upon conducting the forward and backward sweep of potentials.

On page H745, Table II should be

**Table II. FTIR data from IR studies of DMF or DMSO model solutions of KAuBr<sub>4</sub> and potassium (or sodium) pseudohalide ion salts prepared with different mole ratios.**

Model solution studied and mole ratio of KAuBr <sub>4</sub> : pseudohalide salt prepared in DMF or DMSO (X = O, S, Se)	$\nu(\text{CN})$ of free NCX <sup>-</sup> ion <sup>5</sup> (X = O, S, Se) cm <sup>-1</sup>	$\nu(\text{CN})$ of Au(I)/Au(III)/NCX <sup>-</sup> complex ion cm <sup>-1</sup>	Observed color of solution
<b>DMF</b>			
KAuBr <sub>4</sub> /KOCN 1:1	nd	2168 s	Blood red
KAuBr <sub>4</sub> /KOCN 1:2	nd	2168 s	
KAuBr <sub>4</sub> /NaSCN 1:1	nd	nd	Blood red
KAuBr <sub>4</sub> /NaSCN 1:2	2055	2120 <sup>32</sup> w	
KAuBr <sub>4</sub> /KSeCN 1:1	nd	nd	Orange/yellow
KAuBr <sub>4</sub> /KSeCN 1:2	2065	2126 w	Yellow
<b>DMSO</b>			
KAuBr <sub>4</sub> /KOCN 1:1	nd	2166	Blood red
KAuBr <sub>4</sub> /KOCN 1:2	nd	2165	
KAuBr <sub>4</sub> /KOCN 1:4	2136	2165	
KAuBr <sub>4</sub> /NaSCN 1:1	2055 w	nd	Blood red
KAuBr <sub>4</sub> /NaSCN 1:2	2055	2120 <sup>32</sup>	
KAuBr <sub>4</sub> /NaSCN 1:4	2055	2120, 2143 <sup>38</sup> w	
KAuBr <sub>4</sub> /KSeCN 1:1	nd	nd	
KAuBr <sub>4</sub> /KSeCN 1:2	2065	2124	Orange/yellow
KAuBr <sub>4</sub> /KSeCN 1:4	2065	2124, 2143 <sup>38</sup> w	Yellow

nd = not detected, s = strong, w = weak

On page H747, right column, the caption for Figure 9 should be

**Figure 9.** Transmission IR spectra of the model solutions prepared with KAuBr<sub>4</sub> salts and pseudohalide salts in DMSO solution where [KAuBr<sub>4</sub>] = 0.025 mol L<sup>-1</sup>, [NaSCN] = 0.1 mol L<sup>-1</sup> and different amounts of KOCN salt. (a) 1:4 KAuBr<sub>4</sub>:NCS<sup>-</sup> mole ratio solutions. (b) 1:4:1 KAuBr<sub>4</sub>:NCS<sup>-</sup>:NCO<sup>-</sup> mole ratio solutions. (c) 1:4:2 KAuBr<sub>4</sub>:NCS<sup>-</sup>:NCO<sup>-</sup> mole ratio solutions. (d) 1:4:4 KAuBr<sub>4</sub>:NCS<sup>-</sup>:NCO<sup>-</sup> mole ratio solutions.

On page H749 the caption for Figure 11 should be

**Figure 11.** Transmission IR spectra of the model solutions prepared with KAuBr<sub>4</sub> salts and pseudohalide salts in DMSO solution where [KAuBr<sub>4</sub>] = 0.025 mol L<sup>-1</sup>, [KSeCN] = 0.1 mol L<sup>-1</sup> and different amounts of KOCN salt. (a) 1:4 KAuBr<sub>4</sub>:NCSe<sup>-</sup> mole ratio solutions. (b) 1:4:1 KAuBr<sub>4</sub>:NCSe<sup>-</sup>:NCO<sup>-</sup> mole ratio solutions. (c) 1:4:2 KAuBr<sub>4</sub>:NCSe<sup>-</sup>:NCO<sup>-</sup> mole ratio solutions. (d) 1:4:4 KAuBr<sub>4</sub>:NCSe<sup>-</sup>:NCO<sup>-</sup> mole ratio solutions.

On page H750, left column, Reference 27 should be

27. M. E. Martins, C. Castellano A. J. Calandra, A. J. Arvia, *J. Electroanal. Chem.*, **81**, 191 (1977).

On page H750, right column, Reference 28 should be

28. M. E. Martins, C. Castellano, A. J. Calandra, and A. J. Arvia, *J. Electroanal. Chem.*, **92**, 45 (1978).