



Correction to: Synthesis and characterization of gold-containing oxides of K_2NiF_4 or Nd_2CuO_4 structure type

Jerffersson Rodríguez Delgado¹ · Verónica García Rojas¹ · Gilles H. Gauthier²

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Correction to: Gold Bull

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The original version of this article unfortunately contained mistakes. The presentation of Tables 2, 3, 4, 5, and 6 was incorrect. The corrected tables are given below.

The online version of the original article can be found at <https://doi.org/10.1007/s13404-018-0227-2>

✉ Verónica García Rojas
vgarojas@uis.edu.co

¹ Grupo de Investigación en Química Estructural—GIQUE, Universidad Industrial de Santander, Calle 9 N 27, Bucaramanga, Santander, Colombia

² Grupo INTERFASE, Universidad Industrial de Santander, Calle 9 N 27, Bucaramanga, Santander, Colombia

Table 2 Results of LeBail refinement for $[\text{Au}(\text{NH}_3)_4](\text{NO}_3)_3$ complex in comparison with literature [24]

	Crystal system Space group	$a(\text{\AA})$	$b(\text{\AA})$	$c(\text{\AA})$	$\beta(^{\circ})$	$V(\text{\AA}^3)$
This work	Monoclinic $P2/m$	13.1498(8)	8.0890(3)	10.9793(4)	94.551(3)	1164.18(9)
		$R_p(\%) = 7.2; R_{wp}(\%) = 10.20; R_{exp}(\%) = 6.40; \chi^2 = 2.55$				
[24]	Orthorhombic $Cmmm$	7.24300	13.80500	5.30200	–	530.145

Table 3 Crystallographic parameters for the oxides, type K_2NiF_4

	Crystal system	Space group	$a = b(\text{\AA})$	$c(\text{\AA})$	$V(\text{\AA}^3)$
$\text{La}_2\text{Li}_{0.5}\text{Ni}_{0.5}\text{O}_4$					
This work	Tetragonal	$I4/mmm$	3.75787(3)	12.8845(1)	181.950(1)
			$R_p(\%) = 3.71; R_{wp}(\%) = 4.76; R_{exp}(\%) = 3.41; \chi^2 = 1.95$		
[25]	Tetragonal	$I4/mmm$	3.7553	12.8872	181.739
$\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.5}\text{O}_4$					
This work	Tetragonal	$I4/mmm$	3.72619(3)	13.1894(1)	183.128(3)
			$R_p(\%) = 4.25; R_{wp}(\%) = 5.44; R_{exp}(\%) = 3.87; \chi^2 = 1.97$		
[26]	Tetragonal	$I4/mmm$	3.731	13.20	183.749

Table 4 Crystallographic parameters for $\text{La}_2\text{Li}_{0.5}\text{Au}_{0.5}\text{O}_4$

$\text{La}_2\text{Li}_{0.5}\text{Au}_{0.5}\text{O}_4$	Crystal system	Space group	$a(\text{\AA})$	$b(\text{\AA})$	$c(\text{\AA})$	$V(\text{\AA}^3)$
This work	Orthorhombic	$Cmmm$	5.7596(2)	12.463(3)	5.7594(2)	413.42(3)
			$R_p(\%) = 4.12; R_{wp}(\%) = 5.83; R_{exp}(\%) = 4.40; \chi^2 = 1.75$			
[27]	Orthorhombic	$Ammm$	5.768	5.762	12.466	414.310

Table 5 Crystallographic parameters for $\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.475}\text{Au}_{0.025}\text{O}_4$ in comparison with pure phases

	Phase	$a(\text{\AA})$	$b(\text{\AA})$	$c(\text{\AA})$	$V(\text{\AA}^3)$
$\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.475}\text{Au}_{0.025}\text{O}_4$	$\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.5}\text{O}_4$	3.72565(3)	3.72565(3)	13.1937(1)	183.136(3)
	$\text{La}_2\text{Li}_{0.5}\text{Au}_{0.5}\text{O}_4$	5.762(1)	12.471(1)	5.7558(7)	413.6(1)
		$R_p(\%) = 5.53; R_{wp}(\%) = 7.16; R_{exp}(\%) = 5.70; \chi^2 = 1.58$			
Pure matrices	$\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.5}\text{O}_4$	3.72619(3)	13.1894(1)	183.128(3)	3.72619(3)
	$\text{La}_2\text{Li}_{0.5}\text{Au}_{0.5}\text{O}_4$	5.7596(2)	12.463(3)	5.7594(2)	413.42(3)

Table 6 Crystallographic parameters for $\text{La}_2\text{Li}_{0.5}\text{Au}_{0.475}\text{Ni}_{0.025}\text{O}_4$ in comparison with pure phases

Phase	$a(\text{\AA})$	$b(\text{\AA})$	$c(\text{\AA})$	$V(\text{\AA}^3)$	
$\text{La}_2\text{Li}_{0.5}\text{Au}_{0.475}\text{Ni}_{0.025}\text{O}_4$	$\text{La}_2\text{Li}_{0.5}\text{Au}_{0.5}\text{O}_4$	5.7594(1)	5.7595(2)	12.4629(1)	413.39(1)
	$\text{La}_2\text{Li}_{0.5}\text{Ni}_{0.5}\text{O}_4$	3.7662(3)	3.7662(3)	12.808(2)	181.68(3)
$R_p(\%) = 5.95; R_{wp}(\%) = 8.17; R_{exp}(\%) = 5.51; \chi^2 = 2.20$					
Pure matrices	$\text{La}_2\text{Li}_{0.5}\text{Au}_{0.5}\text{O}_4$	5.7595(2)	5.7596(2)	12.463(5)	413.45(2)
	$\text{La}_2\text{Li}_{0.5}\text{Ni}_{0.5}\text{O}_4$	3.75787(4)	3.75787(4)	12.88453(5)	181.950(1)