

CORRECTION

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Correction: Synthesis and characterization of novel Li-stuffed garnet-like $\text{Li}_{5+2x}\text{La}_3\text{Ta}_{2-x}\text{Gd}_x\text{O}_{12}$ ($0 \leq x \leq 0.55$): structure–property relationships

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Correction for 'Synthesis and characterization of novel Li-stuffed garnet-like $\text{Li}_{5+2x}\text{La}_3\text{Ta}_{2-x}\text{Gd}_x\text{O}_{12}$ ($0 \leq x \leq 0.55$): structure–property relationships' by Dalia M. Abdel Basset, *et al.*, *Dalton Trans.*, 2017, **46**, 933–946.

There were some errors in Li occupancy in Table 1. The corrected Table 1 is given below. The changes are shown in BLUE.

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Table 1 The powder X-ray Rietveld refinement results for $\text{Li}_{5+2x}\text{La}_3\text{Ta}_{2-x}\text{Gd}_x\text{O}_{12}$ ($0 \leq x \leq 0.55$). The model used for the Li distribution is based on ref. 25, 29, 32 and 33

	Atom	Wyckoff-site	x	y	z	Occupancy	U_{iso} (\AA^2)
$x = 0$ $R_p: 9.75, \chi^2: 1.237$	Li1	24 <i>d</i>	1/4	7/8	0	0.802	0.025
	Li2	48 <i>g</i>	1/8	0.6826	0.5674	0.139	0.025
	Li3	96 <i>h</i>	0.0927	0.684	0.5795	0.147	0.025
	La	24 <i>c</i>	1/8	0	1/4	1	0.0296(1)
	Ta	16 <i>a</i>	0	0	0	1	0.0268(8)
	O	96 <i>h</i>	0.2879(9)	0.0984(1)	0.2011(2)	1	0.0192(9)
$x = 0.15$ $R_p: 10.2, \chi^2: 3.23$	Li1	24 <i>d</i>	1/4	7/8	0	0.718	0.025
	Li2	48 <i>g</i>	1/8	0.6826	0.5674	0.181	0.025
	Li3	96 <i>h</i>	0.0927	0.684	0.5795	0.173	0.025
	La	24 <i>c</i>	1/8	0	1/4	1	0.0208(8)
	Ta	16 <i>a</i>	0	0	0	0.925	0.025
	Gd	16 <i>a</i>	0	0	0	0.075	0.025
	O	96 <i>h</i>	0.2796(5)	0.1056(4)	0.1989(4)	1	0.025
$x = 0.25$ $R_p: 9.97, \chi^2: 1.436$	Li1	24 <i>d</i>	1/4	7/8	0	0.681	0.025
	Li2	48 <i>g</i>	1/8	0.6826	0.5674	0.215	0.025
	Li3	96 <i>h</i>	0.0927	0.684	0.5795	0.182	0.025
	La	24 <i>c</i>	1/8	0	1/4	1	0.0221(3)
	Ta	16 <i>a</i>	0	0	0	0.875	0.025
	Gd	16 <i>a</i>	0	0	0	0.125	0.025
	O	96 <i>h</i>	0.2870(1)	0.0949(2)	0.2007(3)	1	0.025
$x = 0.35$ $R_p: 10.07, \chi^2: 1.48$	Li1	24 <i>d</i>	1/4	7/8	0	0.678	0.025
	Li2	48 <i>g</i>	1/8	0.6826	0.5674	0.227	0.025
	Li3	96 <i>h</i>	0.0927	0.684	0.5795	0.193	0.025
	La	24 <i>c</i>	1/8	0	1/4	1	0.0197(5)
	Ta	16 <i>a</i>	0	0	0	0.825	0.0114(4)
	Gd	16 <i>a</i>	0	0	0	0.175	0.025
	O	96 <i>h</i>	0.2930(2)	0.0965(2)	0.1968(5)	1	0.025
$x = 0.45$ $R_p: 11.34, \chi^2: 2.304$	Li1	24 <i>d</i>	1/4	7/8	0	0.675	0.025
	Li2	48 <i>g</i>	1/8	0.6826	0.5674	0.228	0.025
	Li3	96 <i>h</i>	0.0927	0.684	0.5795	0.210	0.025
	La	24 <i>c</i>	1/8	0	1/4	1	0.0229
	Ta	16 <i>a</i>	0	0	0	0.775	0.0262
	Gd	16 <i>a</i>	0	0	0	0.225	0.025
	O	96 <i>h</i>	0.2851	0.1041(8)	0.2031(2)	1	0.025
$x = 0.55$ $R_p: 13.94, \chi^2: 2.848$	Li1	24 <i>d</i>	1/4	7/8	0	0.671	0.025
	Li2	48 <i>g</i>	1/8	0.6826	0.5674	0.229	0.025
	Li3	96 <i>h</i>	0.0927	0.684	0.5795	0.224	0.025
	La	24 <i>c</i>	1/8	0	1/4	1	0.0132(7)
	Ta	16 <i>a</i>	0	0	0	0.725	0.0015
	Gd	16 <i>a</i>	0	0	0	0.275	0.025
	O	96 <i>h</i>	0.2842(6)	0.0908(2)	0.1987(5)	1	0.025

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

