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Correction: Preparation of phase-pure MgTiO₃ microwave dielectric ceramics for GPS antenna application

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Correction for 'Preparation of phase-pure MgTiO₃ microwave dielectric ceramics for GPS antenna application' by Dhananjay Mali *et al.*, *J. Mater. Chem. C*, 2024, 12, 15101–15111, <https://doi.org/10.1039/D4TC02724H>.

The authors regret an error in the column headings of Table 4 in the published article. The corrected Table 4 is shown here.

Table 4 Density and microwave dielectric properties of MgTiO₃ pellets sintered at 1500 °C for 4 h and calcined at various temperatures

S. no	Material	Preparation method	Optimized calcination temperature (°C)	Optimized sintering temperature (°C)	Relative density %	Dielectric properties			Ref.
						ϵ_r	$Q \times f$ (GHz)	τ_f (ppm per °C)	
1.	MgTi _{0.98} O _{2.96}	Solid state	650	1120	95.2	16.45	48 500	−48	17
2.	MgO + TiO + CaO	Solid state	1100/2.5 h	1310/4 h	96	21.1	86 000	−3.8	21
3.	0.95MgTiO ₃ –0.05CaTiO ₃	Solid state	1000	1450	96.4	20.1	68 613	1.81	22
4.	0.935MgTiO ₃ –0.065CaTiO ₃ + 5 wt% ZnNb ₂ O ₆	Solid state	1100/3 h	1300/2h	97	22.5	93 561	6.2	23
5.	MgZrNb ₂ O ₈	Solid state	1200/4 h	1340/4 h	98	26	120 816	−50.2	26
6.	0.3MgTiO ₃ –0.6Mg ₂ TiO ₄ –0.1(Ca _{0.7} La _{0.3})(Ti _{0.7} Al _{0.3})O ₃	Solid state	—	1230	—	18	51 700	−4.6	45
7.	0.96MgTiO ₃ –0.04SrTiO ₃	Solid state	1100/3 h	1350/3 h	—	18.74	26 154	1.76	46
8.	MgTiO ₃ –15 wt% B ₂ O ₃	Solid state	—	200	96	14.5	39 000	−54.39	47
9.	0.78Mg ₆ Ti ₅ O ₁₆ –0.22Ca _{0.8} Sr _{0.2} TiO ₃	Solid state	1100/4 h	1400/4 h	96	20.25	74 200	−1.28	48
10.	MgTi _{0.99} (Mn _{1/2} W _{1/2}) _{0.01} O ₃	Solid state	1100/3 h	1325/4 h	99	18.74	160 992	−58.2	49
11.	MgZr _{0.9} Ti _{0.1} Nb ₂ O ₈	Solid state	1100/3 h	1320/4 h	—	25.72	130 123	−46.60	50
12.	MgTiO ₃	Solid state	1000/4 h	1500/4 h	97.18	18.2	103 241	−45.23	Present work

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

