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Enhanced effect of vanadium ions non-stoichiometry on microwave dielectric properties of $\text{Ca}_5\text{Co}_4\text{V}_{6+x}\text{O}_{24}$ ceramics

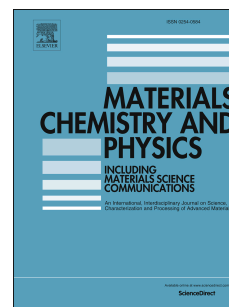
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1. Effect of V ions non-stoichiometry on $\text{Ca}_5\text{Co}_4\text{V}_{6+x}\text{O}_{24}$ ceramics was reported firstly.
2. Non-stoichiometric $\text{Ca}_5\text{Co}_4\text{V}_{5.95}\text{O}_{24}$ ceramic exhibit the best microwave properties.
3. Slight deficiency of vanadium ions can significantly improve quality factor.
4. A new $\text{Ca}_5\text{Co}_4\text{V}_{5.95}\text{O}_{24} - 0.1 \text{ TiO}_2$ ceramic with $\tau_f = 0 \text{ ppm}/^\circ\text{C}$ was invented.

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