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(54) Title: MULTIPHASE CERAMIC COMPOSITE

(57) Abstract: A multiphase ceramic composite is provided. The multiphase ceramic composite comprises a first ceramic phase of $\text{HfZrCeMO}_{2-\delta}$, wherein M is a metal selected from the group consisting of an alkaline metal, a transition metal and a rare earth metal, and δ is a number determined by valence of elements other than oxygen in the first ceramic phase; and a second ceramic phase of Al_2O_3 . A method of preparing a multiphase ceramic composite and article of manufacture comprising a multiphase ceramic composite are also provided.

WO 2025/106012 A1