Material Specific Design for Room Temperature Superconductivity

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By our formula, Hg-1223 has $K_0 = 70$. We propose, using our design algorithm, that room temperature superconductivity may be realized in a system with $K_0 = 160$; electronegativity = 2.5, $N_e$/sqrt $Z = 0.8$.

We proceed to show combinations of oxides and elements that will yield the required parameters for synthesizing reproducible room temperature superconductivity.

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