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Do 'magic' Electronegativities exist for superconductivity?¹ O. PAUL ISIKAKU-IRONKWE, The Center for Superconductivity Technologies[TCST], Abuja FCT, Nigeria — Studies have established a strong correlation between electronegativity and superconductivity. Here we examine the electronegativity values of many known binary superconducting systems[A-15s, Y₂C₃, CaSi₂, MgB₂,...] with high transition temperatures and use those[magic] values and their series to predict new superconducting materials. We also estimate the transition temperatures of the predicted compounds if they could be formed under pressure.

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