

Zink, Jonathon

Catalog of WISE-Selected Exoplanet Candidate Sources

We present sources selected from their WISE colors that merit future observations to search for disks and possible exoplanet companions. Our sample was taken from a previous exoplanet candidate survey and known exoplanet catalogs. Selecting candidates with detectable WISE W4 and W3 colors and a S/N > 2 provides 866 candidates for which we present W3-W4 colors. Direct parameter comparisons are made using 475 exoplanet host sources. We find 98 sources utilizing WISE σ values, which present 12-22 μm magnitudes > 0.05, characteristic of planet-bearing systems. Of these systems, 12 are within 20 pc and make good targets for future deep imaging with AO and coronagraphs to search for debris disk and new exoplanets.