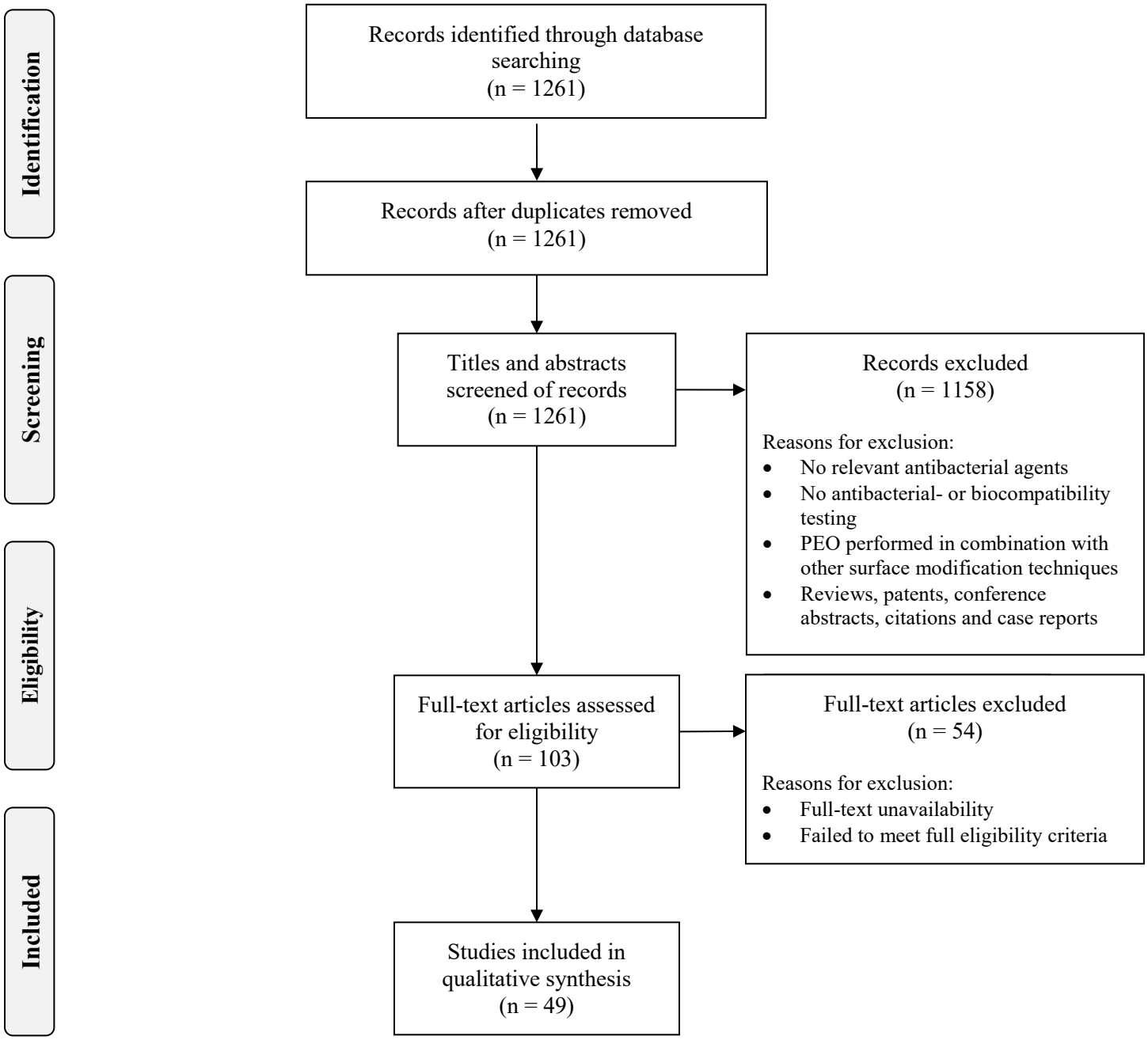Suppl.figure 1