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In future to develop a novel copper alloy metal matrix composite alloy through mechanical alloying by high energy ball milling route.

This results show that Scherrer equation is an easy way to evaluate the mean diameter in nano-sized copper particle cases. In some particular cases copper material this relation must be completed with other theory that take in account lattice site of crystalline structure. Otherwise, this equation can be the first evaluation of mean diameter distribution. Then conclude directly XRD pattern, if large rings appear than samples in study has a low values for mean diameter than in case if thick rings appear.

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