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AFFECTING INQUIRY-BASED LABORATORY ON THE DEVELOPMENT OF STUDENTS' EXPERIMENTAL COMPETENCY: A SYSTEMATIC LITERATURE REVIEW

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The purpose of this systematic literature review is to analyze the researches trends inquiry-based laboratory on the development of students' experimental competency. The PRISMA approach was used this systematic review by conducting the literature search using two online databases SCOPUS and ERIC. We found 48 studies published from the years 2011 to 2021. We classified these studies under eight themes: (1) the traditional and inquiry-based laboratory (IBL), (2) IBL implementation and curriculum, (3) types of IBL, (4) students' perceptions of teaching assistants and benefit of IBL, (5) IBL to enhance skills and knowledge, (6) students' attitude towards IBL, (7) the factors support student learning in IBL, (8) IBL to improve students' autonomy and self-efficacy.

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