

CHAPTER 4

PREFABRICATION AND PREFABRICATED STRUCTURES IN SCIENTIFIC LITERATURE: SCIENTOMETRIC INVESTIGATION WITH VOSVIEWER

İlhami AY¹
Sema BEKLER²
Murat DAL³
Barış BEKLER⁴

INTRODUCTION

Prefabrication can be defined as “facilitating construction, providing economic gain, saving time and providing the required comfort by quickly combining prefabricated elements prepared in advance” (Aydemir, 2005). In other words, it is to ensure a certain level of quality in working conditions and to increase standardisation by controlling the quality and capacity of labour in the factory so as to leave the least number of work areas on the construction site (Gümüşburun Ayalp and Ay, 2021). Prefabrication is increasingly being adopted worldwide with the aim to improve construction efficiency and reduce the negative environmental and social impacts that can occur in traditional construction activities. In prefabrication, the production process takes place on a factory site or outdoors. Prefabricated construction is made possible by advances in specially adapted equipment for transport and assembly (Ay, 2019).

¹ Lecturer, Hakkari University, Çölemerik Vocational School, ilhamiay@hakkari.edu.tr,
ORCID iD: 0000-0002-3506-3234

² Scientist, Munzur University, Department of Culture and Arts Management, ksy.semabekler@gmail.com,
ORCID iD: 0009-0002-2152-2767

³ Prof. Dr., Munzur University, Faculty of Fine Arts, Design, and Architecture, prof.dr.dal@gmail.com,
ORCID iD: 0000-0001-5330-1868

⁴ Scientist, Munzur University, Department of Culture and Arts Management, ksy.barisbekler@gmail.com,
ORCID iD: 0009-0002-5908-6390

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derstanding of global best practices. Such research can identify context-specific barriers and opportunities, thereby helping to develop tailored strategies for increased adoption and effectiveness in different regions.

- **Promoting Interdisciplinary Collaboration:** Prefabrication should be addressed through a multidisciplinary lens that includes not only engineering and architecture, but also environmental science, materials technology, logistics, and labor management. Interdisciplinary collaboration can lead to more innovative and holistic solutions. Moreover, partnerships between academia and industry should be encouraged to bridge the gap between theory and practice through applied research and pilot projects.
- **Policy Development and Incentive Mechanisms:** Government policies and incentive programs play a critical role in mainstreaming prefabricated construction. Future studies should focus on analyzing the impact of supportive regulations, tax incentives, streamlined permitting processes, and capacity-building initiatives. Policy-focused research can guide decision-makers in designing frameworks that accelerate the adoption of prefabricated systems and enhance their contribution to sustainable construction goals.

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