

## CHAPTER 7

# BIBLIOMETRIC ANALYSIS OF SCIENTIFIC PUBLICATIONS ON CURTAIN WALLS IN ARCHITECTURE AND ENGINEERING

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### INTRODUCTION

In architecture, the term “façade” generally refers to the exterior front face of a building. The French word façade, meaning “front” or “face,” is also commonly used with the same meaning.

In architectural design, the façade is one of the most important elements of a building, as it also defines the style of the structure. Due to this importance, many historically significant buildings have their façades protected under local or national urban and regional planning laws, making changes to them either strictly limited or completely prohibited.

In modern architecture, exterior cladding materials enhance both the aesthetic and functional properties of a building’s outer surface. These claddings not only increase the structure’s resistance to external factors but also play a crucial role in supporting energy efficiency. Today, there is a strong relationship between aesthetic appearance and ecological balance.

Undoubtedly, the most prominent and visionary aspect of architectural designs is the exterior façade. As an indispensable part of modern architecture, exterior cladding materials are the key elements that reflect the building’s aesthetic and individual identity. Striking and innovative façade designs also represent a reflection of the building’s interaction with its environment.

The exterior façade is an integral part of architectural design. In terms of both aesthetics and performance, façade systems hold significant importance. Clad-

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used terms were “architecture,” “curtain wall,” “facade,” “building envelope,” and “energy efficient.”

The most influential author was Chiara Bedon, with a total of 18 publications. Tongji University was identified as the leading institution, and China was the most active country in this research area. The Journal of Building Engineering was the top journal in terms of publication count.

Overall, the topic of curtain walls has become an increasingly researched field with significant growth in the literature. This study aims to provide a solid foundation for future research and contribute to the development of the field.

In conclusion, the topic of curtain walls remains a dynamic research area of significant importance, encompassing multidisciplinary studies ranging from engineering and architecture to materials science and energy efficiency. This study serves as a guiding reference for future research, providing an important resource for the systematic evaluation of the literature and the enhancement of scientific collaborations.

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