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| Book Name: | **Materials That Matter: The Future of Interiors through Innovation** |
| Manuscript Number: | **Ms\_BPR\_5829.4** |
| Title of the Manuscript: | **Smart and Sustainable: An Analysis of Eco-Friendly Materials in Architecture and Interior Design** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript offers a timely and interdisciplinary contribution by integrating smart material innovation with cultural and ecological sustainability in architecture and interior design. Its proposed Convergence Framework bridges gaps between technological advancement, design practice, and cultural identity, which are often treated separately in the literature. By synthesizing recent developments and theoretical perspectives, the study provides actionable insights that can inform future research, policy, and professional design strategies. It thus advances the discourse on sustainable design and contributes to the growing body of knowledge in smart material applications and culturally responsive architecture.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes, the current title, "Smart and Sustainable: An Analysis of Eco-Friendly Materials in Architecture and Interior Design," is appropriate for the content and objectives of the manuscript. It clearly communicates the main themes of the study—smart material innovation and sustainable design practices—within the fields of architecture and interior design. The title is concise, informative, and likely to attract interest from both academic and professional audiences. Therefore, no change is necessary.** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Yes, the abstract is generally comprehensive and well-structured. It clearly outlines the research problem, objectives, methodology, theoretical framing, and practical implications. The integration of material science, design innovation, and sustainability is effectively conveyed.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript is scientifically correct. It presents accurate information supported by up-to-date references and applies appropriate theoretical frameworks such as Material Agency Theory, Institutional Theory, and Hybrid Design Thinking. The methodology is clearly described, the literature is relevant and credible, and the interpretations align with the cited sources. While the study is based on secondary data and lacks empirical testing, it adheres to accepted standards of qualitative literature-based research and offers a valid and coherent scientific contribution.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Yes, the references are sufficient and impressively recent. The manuscript cites over 40 sources, many of which are from 2023–2025, ensuring relevance and currency. The selection includes peer-reviewed journal articles, case studies, and academic reports from reputable publishers, covering key areas such as smart materials, sustainability, eco-innovation, and cultural design integration.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the language and English quality of the article are generally suitable for scholarly communication. The manuscript demonstrates an academic tone, uses discipline-appropriate terminology, and communicates complex ideas clearly. Sentence structures are mostly coherent and well-formed, and the vocabulary reflects the standards of peer-reviewed scientific writing. |  |
| Optional/General comments | Thank you for the opportunity to review the manuscript entitled “Smart and Sustainable: An Analysis of Eco-Friendly Materials in Architecture and Interior Design.”  The study addresses a highly relevant and timely topic, investigating how smart, eco-friendly materials can promote sustainability in architecture and interior design. Its originality lies in the proposed "Convergence Framework," which integrates technological, cultural, and ecological dimensions—offering potential contributions to both theory and practice.  The Introduction is well-structured and relevant, clearly identifying the research gap. However, some of the broader claims (e.g., the absence of integrative studies) would benefit from more comparative referencing to substantiate the novelty.  The Literature Review is comprehensive and up to date, including numerous sources from 2023–2025. It effectively covers key domains (smart materials, adoption challenges, cultural integration), but tends to remain descriptive. A more critical synthesis, highlighting conflicting views or knowledge gaps, would strengthen its analytical value.  The Methodology is clearly outlined as a qualitative literature review with defined inclusion and exclusion criteria. While Figure 1 is mentioned, it is not elaborated in detail. A schematic illustration of the Convergence Framework would be a valuable addition to reinforce the methodological depth and central model of the study.  The Findings and Discussion section is the strongest part of the manuscript. It effectively links theoretical models (e.g., Material Agency Theory, Institutional Theory, Hybrid Design Thinking) with practical insights. However, the distinction between literature-based findings and the authors’ own interpretations should be made clearer to emphasize original contributions.  The Conclusion is consistent with the study’s aims and presents concrete implications. The acknowledgment of limitations is appreciated, though the suggestions for future research (e.g., mixed methods) could benefit from more specific guidance—such as identifying relevant stakeholder groups or geographic contexts.  Overall, the manuscript presents scientifically valuable and timely content. With minor revisions—particularly to deepen the critical analysis in the literature review and to clarify the structure of the methodology and conclusion—it could be considered suitable for publication.  The manuscript provides a strong and timely contribution to the field of sustainable design by integrating smart material technologies with cultural and ecological considerations. The proposed Convergence Framework is conceptually valuable and well-supported by recent literature. The manuscript meets the criteria for academic rigor, relevance, and originality. Minor revisions are recommended to enhance clarity in the literature synthesis, streamline certain dense sections, and visually represent the central framework. With these adjustments, the manuscript is suitable for publication and will be of interest to a wide scholarly and professional readership. |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Szilvia Kisvarga, Hungarian University of Agriculture and Life Sciences (MATE), Hungary**