

ABSTRAK

Aar Abdul Rohman, 1222080001, 2026: Pengembangan *E-book*
Pembelajaran Kimia Berbasis
Etnokimia Kampung Kuta
Berorientasi Literasi Lingkungan
untuk Siswa SMA

Pembelajaran kimia di SMA masih didominasi oleh penyampaian konsep secara teoritis sehingga peserta didik mengalami kesulitan menghubungkan materi dengan fenomena dalam kehidupan sehari-hari. Selain itu, pemanfaatan kearifan lokal sebagai konteks pembelajaran dan pengembangan literasi lingkungan masih belum optimal. Penelitian ini bertujuan untuk mengidentifikasi nilai-nilai etnokimia masyarakat Kampung Kuta yang relevan untuk diintegrasikan ke dalam pembelajaran kimia SMA berorientasi literasi lingkungan, mendeskripsikan rancangan tampilan *e-book*, serta mengetahui hasil validasi ahli dan uji kelayakan *e-book* yang dikembangkan. Penelitian menggunakan metode *Design-Based Research* (DBR) yang meliputi tahap analisis dan eksplorasi, desain dan konstruksi, serta evaluasi dan refleksi. Teknik pengumpulan data dilakukan melalui observasi, wawancara, dokumentasi, validasi ahli, dan uji kelayakan. Hasil penelitian menunjukkan bahwa nilai-nilai etnokimia pada aspek lingkungan dan kearifan lokal, pertanian tradisional, pengelolaan sampah, dan pengolahan gula aren berpotensi diintegrasikan ke dalam pembelajaran kimia berorientasi literasi lingkungan. Hasil validasi menunjukkan aspek materi memperoleh nilai 0,75, literasi lingkungan 0,76, bahasa 0,80, dan tampilan 0,78, sehingga termasuk kategori valid. Hasil uji kelayakan memperoleh persentase 92,29% (materi), 93,74% (bahasa), 93,80% (tampilan), dan 95,32% (kemudahan penggunaan) dengan kategori sangat layak. Dengan demikian, *e-book* yang dikembangkan layak digunakan sebagai media pembelajaran kimia di SMA.

Kata kunci: *E-book*, Etnokimia, Kampung Kuta, Literasi Lingkungan, Pembelajaran Kimia.

ABSTRACT

Aar Abdul Rohman, 1222080001, 2026: Development of a Chemistry Learning E-Book Based on the Ethnochemistry of Kampung Kuta and Oriented toward Environmental Literacy for Senior High School Students

Chemistry instruction in senior high schools remains dominated by the theoretical presentation of concepts, making it difficult for students to connect chemical concepts with real-life phenomena. Furthermore, the use of local wisdom as a learning context and the development of environmental literacy remain suboptimal. This study aimed to identify ethnochemical values of the Kampung Kuta community that are relevant for integration into environmental literacy-oriented chemistry instruction at the senior high school level, to describe the design of the e-book, and to determine the results of expert validation and feasibility testing of the developed e-book. The study employed the Design-Based Research (DBR) method, comprising three stages: analysis and exploration, design and construction, and evaluation and reflection. Data were collected through observation, interviews, documentation, expert validation, and feasibility testing. The results showed that ethnochemical values related to environmental aspects and local wisdom, traditional agriculture, waste management, and palm sugar processing have the potential to be integrated into environmental literacy-oriented chemistry instruction. The validation results showed validity scores of 0.75 for content, 0.76 for environmental literacy, 0.80 for language, and 0.78 for presentation, indicating that the e-book was categorized as valid. The feasibility test results yielded percentages of 92.29% for content, 93.74% for language, 93.80% for presentation, and 95.32% for ease of use, indicating that the e-book was categorized as highly feasible. Therefore, the developed e-book is suitable for use as a chemistry instructional medium in senior high schools.

Keywords: E-book, Ethnochemistry, Kampung Kuta, Environmental Literacy, Chemistry Learning.