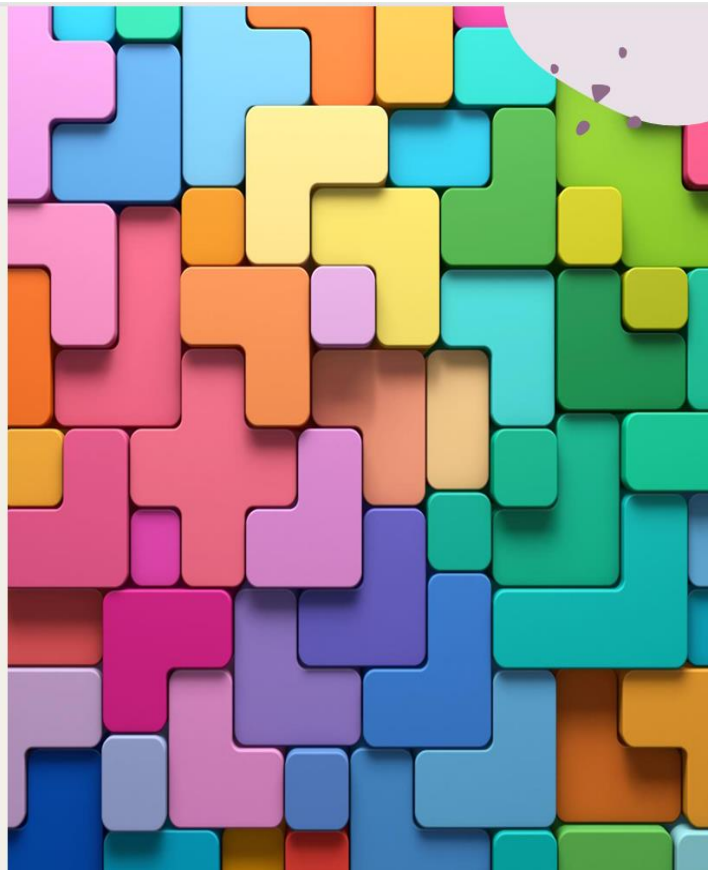




*Membangun Ekosistem Pembelajaran Kimia
Digital yang Adaptif: Sinergi Antara Teknologi,
Pedagogi, dan Kebutuhan Abad 21*

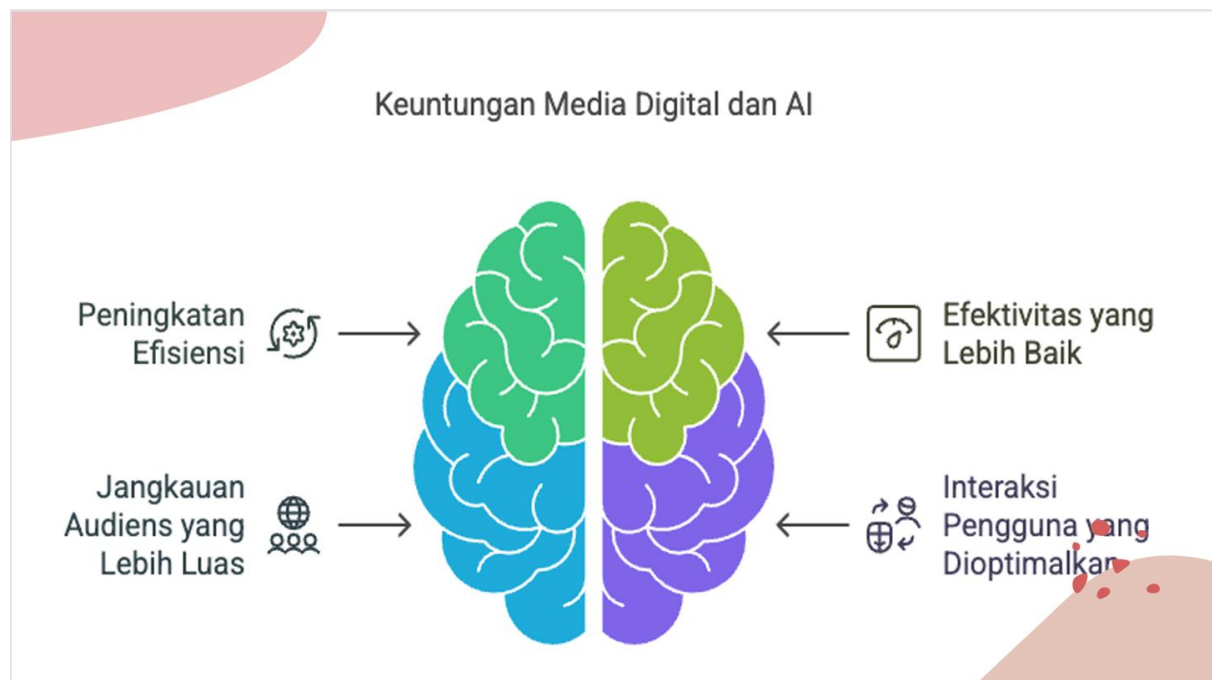
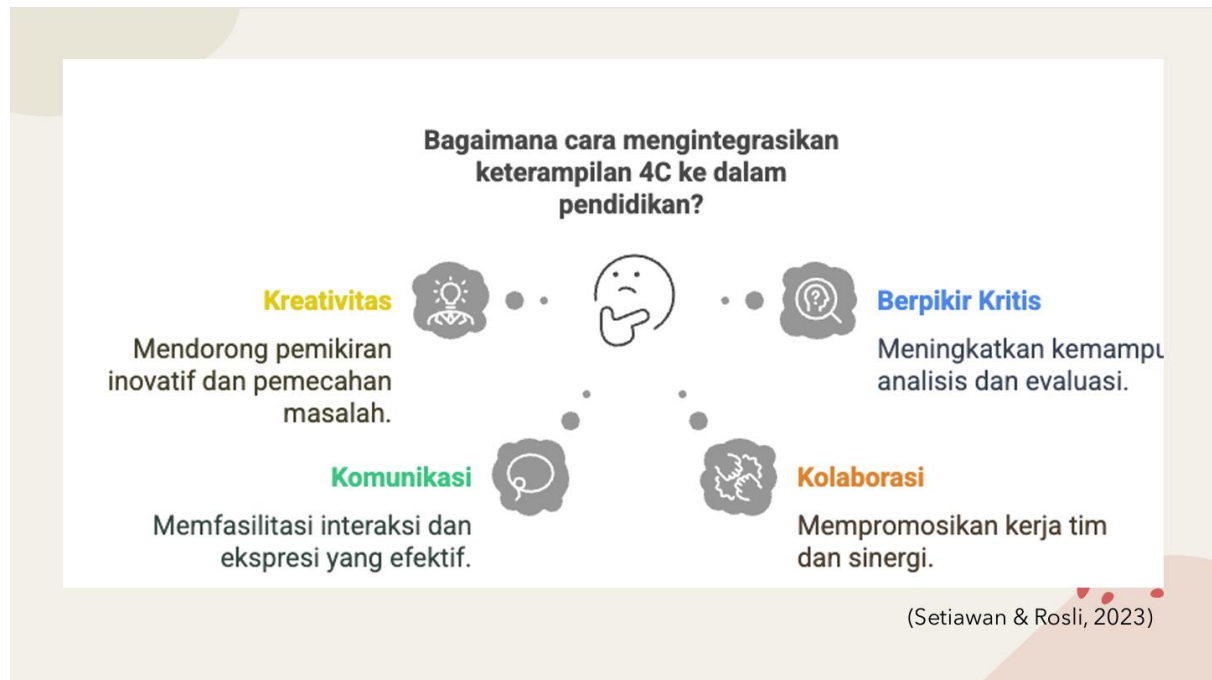
Nur Candra Eka Setiawan



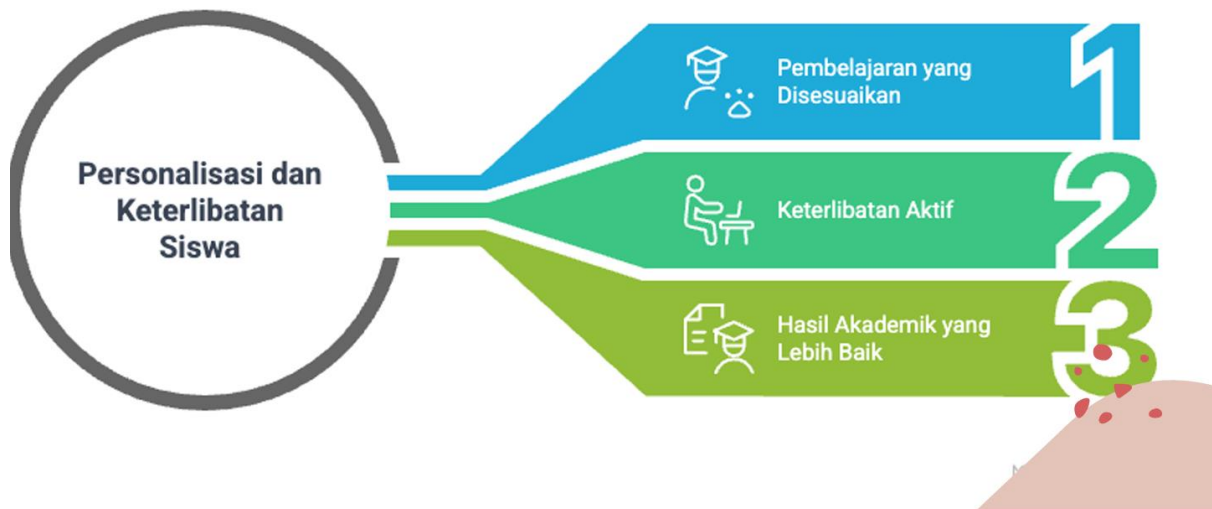
Universitas Negeri Malang



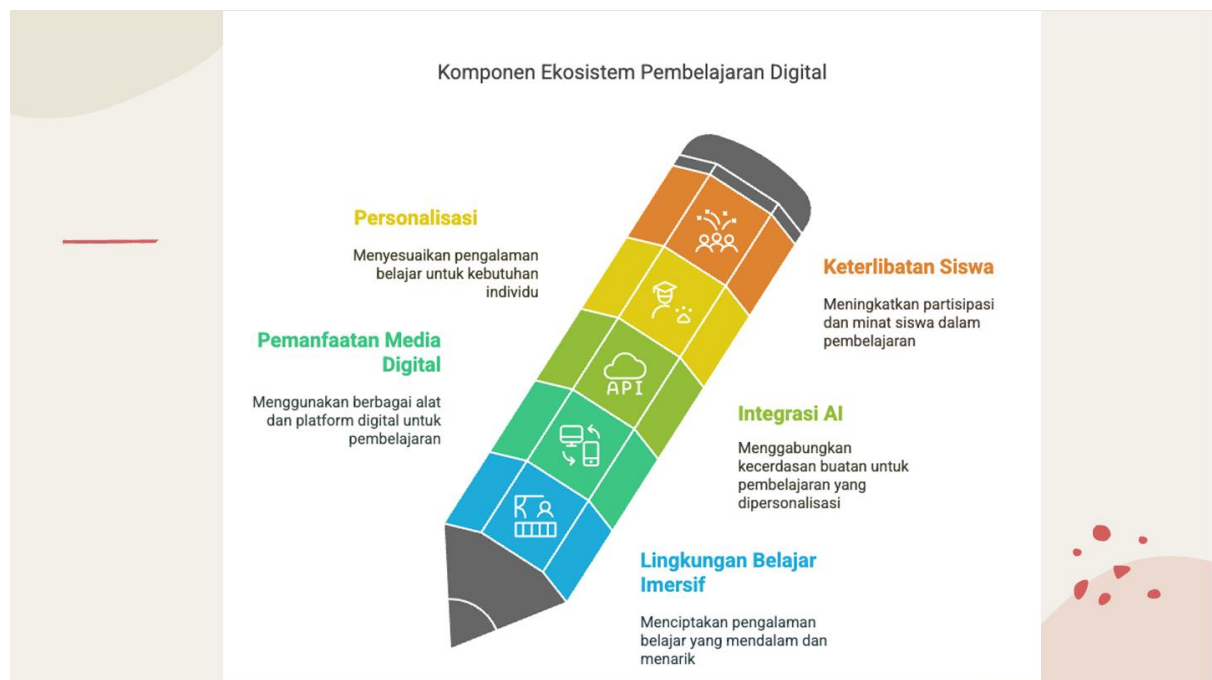


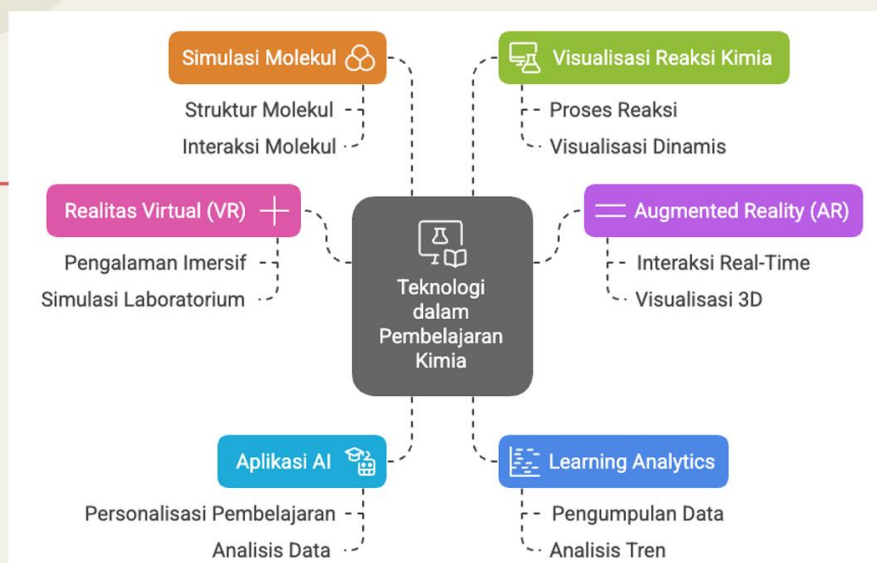


Meningkatkan Pendidikan Melalui Personalisasi



Komponen Ekosistem Pembelajaran Digital







pendekatan STEAM-2C ber-ISBN

ES3 Web of Conferences **481**, 04003 (2024)
IC3Chem 2023

<https://doi.org/10.1051/ecsconf/202448104003>

Development of STEAM-2C: Integrated Acid-Base Digital Book Based on Malang Local Wisdom

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Jl. Semarang 5 Malang, 65145, Indonesia
²School of Education, Universiti Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia

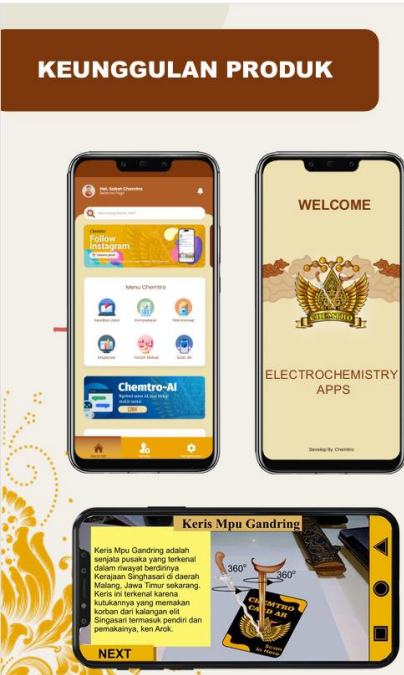
Abstract. Contextual approach in learning acid-base concepts is proven to improve students' understanding. This is based on an initial survey of students regarding the acid-base concept, as many as 66.7% were interested in learning the concept if it is related to everyday life. Therefore, a contextual approach integrates contextual and real-world applications has been proposed to make the concept more meaningful to students. STEAM-2C which integrates aspects of (Science, Technology, Art, Engineering, Mathematics, Culture, and Communication) is one application of a contextual approach that is proven to increase motivation, besides that students also need to explore the local wisdom around them. However, the problem is that no learning resource combines aspects of STEAM-2C based on local wisdom, one of which is in Malang City. Therefore, a learning media was developed in the form of a flipbook integrated with the STEAM-2C





KEUNGGULAN PRODUK

- Berbasis **kearifan lokal keris**
- Terintegrasi **Aplikasi Augmented Reality**
- Merepresentasikan elektrokimia secara **multiple representative**
- Memudahkan belajar kimia materi **elektrokimia**



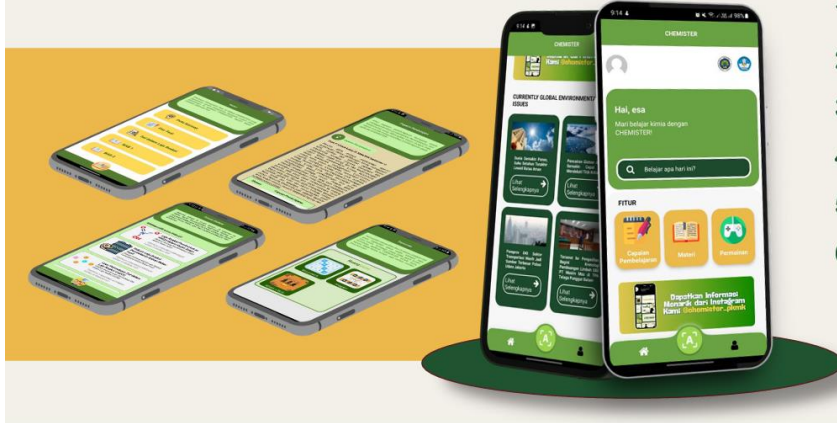
KEUNGGULAN PRODUK

- Chemtro AI**
- Scan AR**
- Eksplorasi**
- Kearifan Lokal**

- Diskusi
- Petunjuk media
- Kompetensi
- Peta konsep
- Games
- Info pengembang

INOVASI DAN KEUNGGULAN

Aplikasi CHEMISTER

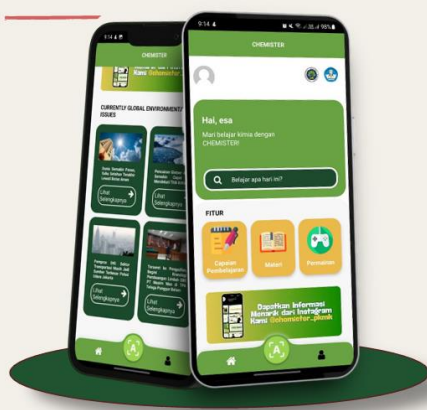


1. Capaian Pembelajaran
2. Materi
3. Permainan
4. Forum Diskusi
5. CHEMISTER-AI
6. Scan AR

9

INOVASI DAN KEUNGGULAN

Aplikasi CHEMISTER

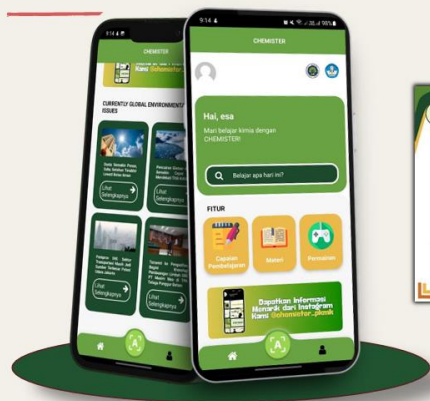


Forum Diskusi

Chat Ai

INOVASI DAN KEUNGGULAN

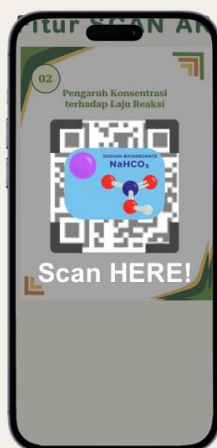
Aplikasi CHEMISTER

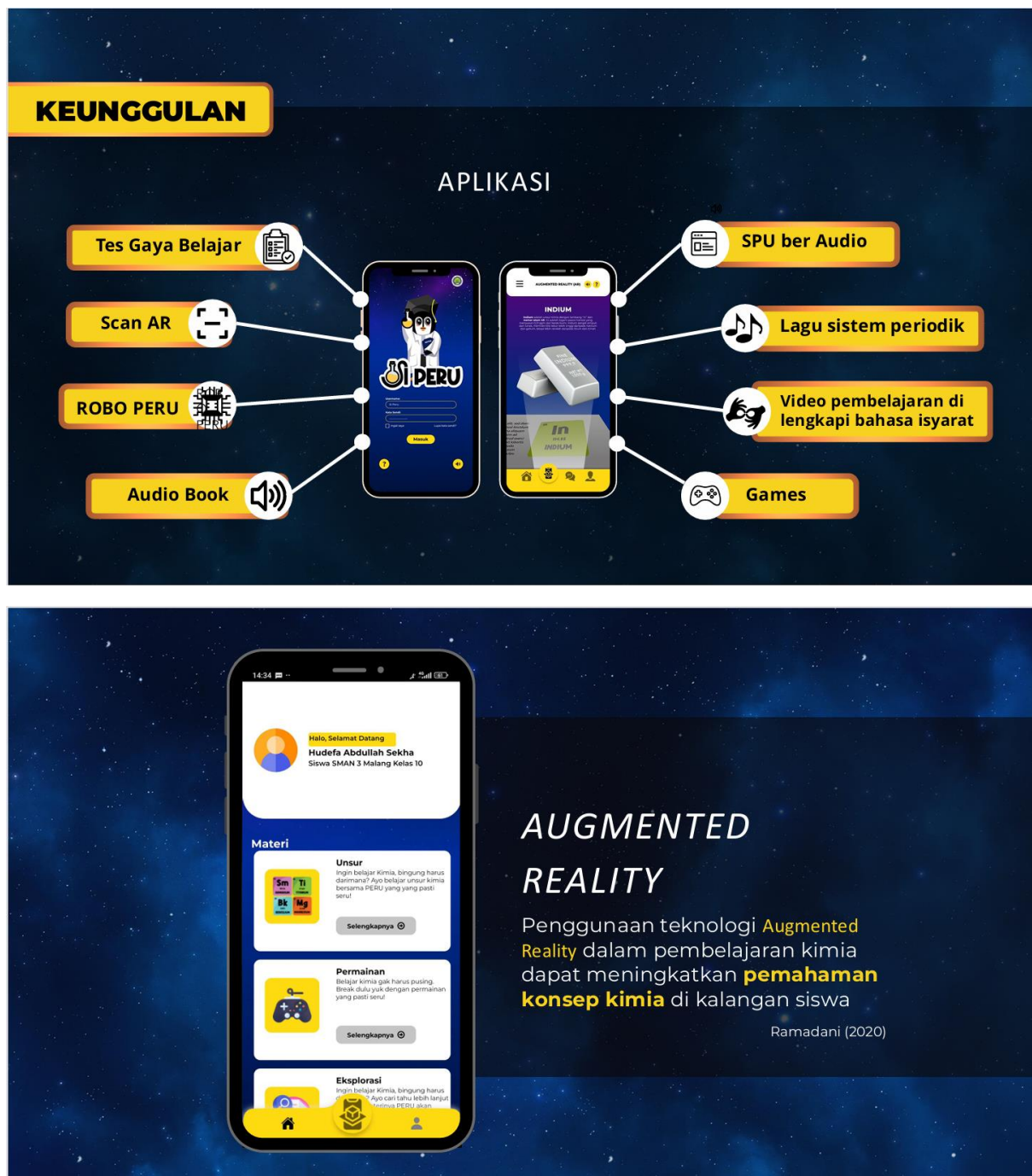


Fitur SCAN AR

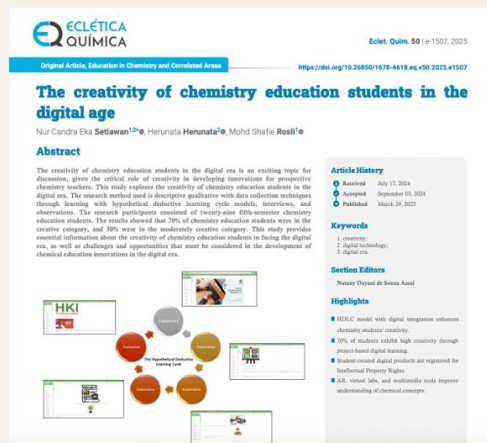


INOVASI DAN KEUNGGULAN









"AI bisa mengajarkan fakta,
tapi hanya guru yang bisa
menanamkan makna.
Mari kita bentuk generasi
yang tak hanya cerdas secara digital,
tetapi juga bijak secara moral."

