ABSTRAK

Julianda haripah Rambe NIM 41911131028 (2023), Pengembangan Media Pembelajaran Berbantuan *Lectora Inspire* pada Materi Reaksi Redoks

Salah satu permasalahan yang berkaitan dengan redahnya hasil belajar siswa pada materi kimia adalah kurang bervariasinya media pembelajaran yang digunakan dalam pembelajaran. Materi redoks merupakan salah satu materi yang dianggap sulit oleh siswa karena menuntut pemahaman konsep yang mendalam dan banyak perhitungan sehingga dibutuhkan pemahaman yang mendalam untuk mempelajarinya. Berdasarkan hal tersebut, maka penelitian ini bertujuan untuk mengembangkan media pembelajaran berbantuan *lectora inspire* pada materi reaksi redoks. Penelitian ini dilakukan di sekolah SMA Negeri 1 Batang Kuis di kelas X IPA 5 sebanyak 30 orang. Metode yang digunakan adalah penelitian dan pengembangan atau Research and Development (R&D) dengan model ADDIE yang terdiri dari 5 langkah, yaitu: *analysis, design, development, implementation, dan evaluation*. Analisis kebutuhan dilakukan pada tahapan analisis menggunakan lembar wawancara dan angket analisis kebutuhan siswa. Selanjutnya media pembelajaran berbantuan *lectora inspire* didesain dan dikembangkan. Media yang dikembangkan divalidasi oleh validator ahli media yang sekaligus sebagai validator ahli materi sebanyak 3 dosen kimia UNIMED dengan memberikan angket yang berdasarkan kriteria mengikuti Badan Standar Nasional Pendidikan (BSNP), yaitu kelayakan isi, bahasa, penyajian, dan kegrafikan. Selain itu untuk mengukur hasil belajar siswa menggunakan soal pre-test dan post-test. Hasil penelitian pada tahapan analisis diperoleh dalam proses pembelajaran kimia pada siswa masih cenderung merasa kesulitan dalam memahami konsep dan perhitungan pada pembelajaran kimia serta siswa mengganggap kimia merupakan mata pelajaran yang membosankan. Selain itu, hasil penilaian ahli materi dan media diperoleh dengan persentase rata-rata 92 dan 90 persen, berturut-turut dengan kategori sangat layak. Sedangkan hasil belajar ditemukan dari rata-rata nilai *N-GAIN* yang diperoleh 0,7 dengan kategori "sedang" dimana nilai rata-rata *pre-test* dan *post-test* 35,33 dan 80,33, berturut- turut telah memenuhi KKM $\geq$75. Dengan demikian, media pembelajaran berbantuan *lectora inspire* pada materi reaksi redoks telah memenuhi kriteria standar BSNP dan layak digunakan sebagai media pembelajaran dan dapat meningkatkan hasil belajar siswa.

Kata kunci

Pengembangan, media pembelajaran, *lectora inspire*, reaksi redoks.

ABSTRACT

Julianda haripah Rambe NIM 41911131028 (2023), Development of *Lectora Inspire* Assisted Learning Media on Redox Reaction Material

Lack of a variety of learning media was one of the issues contributing to poor student learning results in chemistry. Redox reaction material was one of the materials that was considered difficult by students because it requires a deep understanding of concepts and lots of calculations. The goal of this study was to create educational materials on redox reactions with the help of lectora inspire. Up to 30 people participated in this study at SMA Negeri 1 Batang Kuis in class X, IPA 5. Research and development (R&D) was the approach employed, and the ADDIE paradigm, which has five parts (analysis, design, development, implementation, and evaluation), was used. At the analysis stage, needs and interview analysis were completed. The collection of analytical data was carried out using interview sheet and questionnaire. Furthermore, the learning media helped by lectora inspire was conceived and developed. The developed media was validated by media expert validators who were also material expert validators as many as 3 Unimed chemistry lecturers by providing questionnaires based on criteria following the National Education Standards Agency (BSNP), namely the feasibility of content, language, presentation, and graphics. In addition, to measure student learning outcomes utilizing pre-test and post-test questions. The results of the research at the analysis stage achieved in the chemistry learning process in students still tend to find it difficult to understand concepts and calculations in chemistry learning and students consider chemistry a boring topic. In addition, the results of the assessment of material and media experts obtained an average proportion of 92 and 90 percent, respectively with the very feasible category. While the learning results were acquired from the average of N-gain value, which was 0.7 with the medium category, where the averages of pre test and post test were determined to be 35.33 and 80.33, respectively. Therefore, those had met the minimal completeness condition ≥ 75. Thus, the learning media helped by lectora inspire on redox reaction content has met the BSNP standard criteria and was suitable for use as a learning media and students learning outcomes might be improved.

Keywords : Development, learning media, lectora inspire, and redox reactions