

ABSTRAK

Alysia Arnopi Munthe, NIM 4203331039 (2024). Pengembangan Bahan Ajar Berbasis Literasi Sains Pada Materi Ikatan Kimia.

Penelitian ini bertujuan untuk mengetahui analisis tingkat kevalidan dan respon peserta didik terhadap bahan ajar berbasis literasi sains pada materi ikatan kimia. Metode penelitian yang digunakan adalah *Research and Development* dengan model penelitian yang digunakan adalah model pengembangan *4D*. Penelitian ini dilaksanakan di SMA Swasta Kesuma Bangsa. Populasi dalam penelitian ini adalah dosen kimia, guru dan peserta didik. Sampel dalam penelitian ini diambil sebanyak satu kelas yakni kelas X KM 1. Hasil penelitian yang diperoleh berdasarkan wawancara yaitu kurangnya penggunaan bahan ajar yang dapat membantu peserta. Kemampuan peserta didik dalam menghubungkan materi yang dipelajari tentang literasi sains juga menjadi salah satu tuntutan dalam pembelajaran kimia. Berdasarkan kevalidan menunjukkan bahwa bahan ajar berupa modul yang dikembangkan dinyatakan valid oleh validator dengan kriteria “Sangat Valid” dengan persentase keseluruhan 89,3%%, kemudian berdasarkan hasil pengolahan angket respon siswa, diperoleh bahwa bahan ajar berupa modul yang dikembangkan secara keseluruhan mendapatkan persentase sebesar 94,15% yang termasuk kedalam kriteria “Sangat Setuju”. Oleh karena itu, modul berbasis ikatan kimia pada materi ikatan kimia valid digunakan sebagai media pembelajaran.

Kata kunci: **modul, berbasis literasi sains, ikatan kimia, model 4D**

ABSTRACT

Alysia Arnopi Munthe, NIM 4203331039 (2024). Development of Teaching Materials Based on Scientific Literacy on Chemical Bonds.

This research aims to determine the analysis of the level of validity and students' responses to teaching materials based on scientific literacy on chemical bonds. The research method used is Research and Development with the research model used is the 4D development model. This research was carried out at Kesuma Bangsa Private High School. The population in this study were chemistry lecturers, teachers and students. The sample in this research was taken from one class, namely class X KM 1. The research results obtained based on interviews were the lack of use of teaching materials that could help participants. Students' ability to relate the material studied to scientific literacy is also one of the demands in learning chemistry. Based on validity, it shows that the teaching materials in the form of modules that were developed were declared valid by the validator with the criteria "Very Valid" with an overall percentage of 89.3%. Then, based on the results of processing the student response questionnaire, it was found that the teaching materials in the form of modules that were developed as a whole received a percentage of 94.15% fall into the "Strongly Agree" criteria. Therefore, the chemical bond-based module on chemical bond material is valid to use as a learning medium.

Keywords: *module, scientific literacy-based, chemical bonding, 4D*