

REFERENCES

- Ahn, R., and Class, M. 2011. Student-Centered Pedagogy: Co-Construction of Knowledge through Student-Generated Midterm Exams. *International Journal of Teaching and Learning in Higher Education*. **23**(2): 269-281.
- Arikunto., (1999), *The basics of education Evaluation*, Bumi aksara, Jakarta.
- _____, (2008), *The basics of education Evaluation*, Penerbit Bumi aksara, Jakarta.
- Arsyad, A., (2011), *Instructional Media*, Penerbit Rajawali Press, Jakarta.
- Bilgin, Ibrahim., dan Sozibilin Mustafa., (2008), The Effects of Problem-Base Learning Instruction on University Student's Performance of Conceptual and Quantitative Problems in Gas Concepts, *Eurasia Journal of Mathematics, Science & Technology Education*, 2009, **5**(2), 153-164.
- Dezricha, Rizky., dan Rohati., (2013), Pengembangan Lembar Kerja Siswa (Lks) Berbasis Poe (*Predict, Observe, Explain*) Pada Materi Program Linear Kelas XII SMA, *Jurnal Sainmatika Vol 8 No 1*(2014)
- Djamarah, S.B., dan Zain, A., (2002), *Teaching and Learning strategy*. Jakarta: Rineka Cipta.
- Fadlana, Hanik., (2013), Studi Komparasi Penggunaan Metode PBL Dilengkapi dengan Macromedia flash dan LKS Terhadap Prestasi Belajar Ditinjau dari Motivasi Belajar Siswa Materi Asm, Basa dan Garam Kelas VII SMP Negeri 1 Jaten Karanganyar Tahun Pelajaran 2012/2013,*Journal education chemistry*, **2**(3) : 161-165.
- Hamdani., (2011), *Teaching and Learning strategy*, Pustaka Setia, Medan.
- Hutagalung, Renata., (2014), *Pengembangan Modul Kimia Larutan Elektrolit dan Non Elektroli Inovatif Sesuai Kurikulum 2013 Berbasis Model pembelajaran Problem Based Learning (PBL)*. (Skripsi), Unimed, FMIPA: Medan.
- Ida., (2010), *Implementation Problem Based Learning (PBL) learning outcome biology in term Intelligence Quotient (IQ)*.

- Keenan., (1986), *Principle basic chemistry and apply Modern Edisi four*, Erlangga, Jakarta.
- Mulyatiningsih, Endang., (2013), *Metode Penelitian Terapan Bidang Pendidikan*, Penerbit Alfabeta, Bandung.
- Nazir Md Zabit, Mohd. (2010). Problem-Based Learning On Students' Critical Thinking Skills In Teaching Business Education In Malaysia: A Literature Review. *American Journal of Business Education*. Vol (3) Nomor 6.
- Parulian, H.G., dan Situmorang, M., (2014), Inovasi Pembelajaran Di Dalam Buku Ajar Kimia SMA Untuk meningkatkan Hasil Belajar Siswa, Jurnal *Penelitian Bidang Pendidikan*, **19 (2)**: 67-78.
- Prastowo., (2010), *Panduan Kreatif Membuat Bahan Ajar Inovatif*, UNY Press, Yogyakarta.
- Purwaningtyas, Restiana; Suparmi.,(2012), Pembelajaran Kimia Menggunakan Pendekatan Sains Teknologi Masyarakat dengan Metode Proyek dan Metode Eksperimen Ditinjau dari Kreativitas dan Kemampuan Berpikir Kritis, *Jurnal Inkuiiri* Vol.1.No.1.
- Rusman., (2013), *Models teaching edition two*, PT Raja grafindo Persada, Jakarta.
- Sanjaya, H.Wina., (2006), *Strategi Pembelajaran Berorientasi Standar Proses Pendidikan*, PT Prenada Media Group, Bandung.
- Silitonga, P.M., (2011), *Statistik Teori dan Aplikasi dalam Penelitian*, FMIPA, UNIMED.
- Slamet., (2003), *learning and factors which influence*, publishing Rineka Cipta, Jakarta.
- Sudjana. N., (1989), *The basic Learning process*, publisher sinar baru, Bandung.
- _____.,(2002), *Methode Statistic*, Penerbit Tarsito, Jakarta
- _____.,(2006), *Method Statistics*, Tarsito, Bandung.
- Trianto., (2011), *Mendesain Model Pembelajaran Inovatif-Progresif* , Kencana Prenada Media Group ,Jakarta.

Ulfah, Farida., (2013), *implementation Problem Based Learning (PBL) medel with LKS to outcome skill and ticking.*

Yamin, Martinis., (2013), *Strategy and method in teaching meddle*, GP Press Group, Jakarta.

