

## DAFTAR PUSTAKA

- Akker, J. Van den. 1999. Principles and Method of Development Research. London. Dlm. van den Akker, J., Branch, R.M., Gustafson, K., Nieveen, N., & Plomp, T. (pnyt.)". Design approaches and tools in educational and training .Dordrecht: Kluwer Academic Publisher.
- Arrends, R. 2008. *Learning to Teach, (7 rd ed.)*, New York: Mc Graw Company
- Arifin, 2000. *Strategi Belajar Mengajar*, Bandung: FPMIPA Pendidikan Kimia UPI.
- Amalia, Nunung F.Endang Susilaningsih.2014.Pengembangan Instrumen Penilaian Keterampilan Berpikir Kritis Siswa SMA Pada Materi Asam Basa.Jurnal Inovasi Pendidikan Kimia,Volume 8 No.2,1380-1389.
- Anastas, P.T. dan Heine, L.G. dkk. 2000. *Green Chemical Syntheses and Processes*, Washington DC: American Chemical Society.
- Barthlow, M.J. dan Watson, S.B., 2011. *The Effectiveness of Process-Oriented Guided Inquiry Learning to Reduce Alternative Conceptions in Secondary Chemistry*, Journal school science and Mathematic vol 114-5, USA: Liberty University A Dissertation Presented in Partial Fulfillment Of the Requirements for the Degree Doctor of Education Liberty University.
- Bayram dan Oskay, O. dkk (2013). *Effect of inquiry based Learning method on student motivation*, Turkey, jurnal Social and behaviour, education and teknik.
- Borg, W. R., & Gall, M. D. (1989). Educational research: An introduction (5th ed.). New York, NY: Longman. ISBN: 0-801-0334-6 [LB1028.B6 1989]
- Cheung, D. 2007. *Facilitating Chemistry Teachers to Implement Inquiry-based Laboratory Work*. International Journal of Science and Mathematics Education, 6(1), 107–130. doi:10.1007/s10763-007-9102-y.
- Colleen, J.C. 2014. *Effects of Guided Inquiry versus Lecture Instruction on Final Grade*, Journal of Chemical Education, United States: Sciences Department, Mount Mary University, Milwaukee Wisconsin 53222. dx.doi.org/10.1021/ed30013.
- Damanik, J., Abdi, R., dan Daryanti, S. 2015. *Implementasi Kebijakan Pendidikan Inklusif Di Perguruan Tinggi Negeri Indonesia*, Studi Komparasi UIN Sunan Kalijaga, Universitas Brawijaya dan Universitas Gadjah Mada (Doctoral dissertation, Universitas Gadjah Mada).

- Darmawan, I. dan Supartono dkk. 2015. *Practical Model-Based Development Chemistry Green Chemistry With Guided Inquiry Method In Madrasah Aliyah*, Jurnal Pendidikan Kimia, UNNES
- Dimiyati dan Mujiono, 2009. *Belajar dan Pembelajaran*, Jakarta: Rhineka Cipta
- Djiwandono, S.E.W. 2006. *Psikologi Pendidikan*, Jakarta: Grasindo
- Fethiye, K. & Ayas, T. 2011. *Developing A Laboratory Activity On Electrochemical*. Western Anatolia Journal of Educational Sciences (WAJES), Turkey: Dokuz Eylul University Institute Izmir ISSN 1308-8971.
- Feyzioglu, B., 2009., *An Investigation of the Relationship Between Science Process Skills with Efficient Laboratory Use and Science Achievement in Chemistry Education*. Journal Of Turkish Science Education6 (3): 114-132.
- Handayani, L.P. 2015. *Pengembangan Buku Penuntun Praktikum IPA Berbasis Inkuiri Terbimbing Untuk SMP Kelas VII Semester II*. Padang : UNP.
- Hanum, Y.W. 2014. *Pengembangan Penuntun Praktikum Inovatif Untuk SMA/MA Kelas XII Sesuai Kurikulum 2013*, Tesis, Medan: Program Pasca Sarjana Kimia UNIMED.
- Harahap dan Nurhafni, M. 2010. *Pengaruh Penggunaan Laboratorium Virtual Dibandingkan Dengan Laboratorium Riel Dengan Pembelajaran Berbasis Masalah Terhadap Aktivitas dan Hasil Belajar Kimia Peserta didik Pada Pokok Bahasan Laju Reaksi*, Tesis, Medan: Pasca Sarjana Unimed
- Hofstein, A., & Lunetta, V. N. 2003. *The laboratory in science education: Foundations for the twenty-first century*. Science Education, 88(1), 28–54. doi:10.1002/sce.10106
- Hofstein, A. 2004. *The Laboratory in Chemistry Education: Thirty years of Experience with Developments, Implementation, and Research*. Laboratory and Practical Work. Volume 5 Nomer 3: 247-264
- Hofstein, A., & Mamlok-Naaman, R. 2007. *The laboratory in science education: the state of the art*. Chem. Educ. Res. Pract., 8(2), 105–107. doi:10.1039/b7rp90003a
- Imalia, I. Oktavia, S. dan Yahmin. 2013. *Pengembangan Buku Petunjuk Praktikum Kimia Sma Berbasis Inkuiri Terbimbing Pada Materi Laju Reaksi Dan Kesetimbangan Kimia*. Malang : Universitas Negeri Malang

- Iswarini dan Sunarno,W. (2015), *Pengembangan Model Pembelajaran Hidrolisis Garam Berbasis Inkuiri terbimbing Untuk Siswa Madrasah Aliyah Kelas XI*, Jurnal inkuiri,9-200. ISSN 2253-vol 4.
- Ivanković A, Dronjić A, Martinović A, Talić S. 2017. *Review of 12 Principles of Green Chemistry in Practice*. International Journal of Sustainable and Green Energy; 6(3): 39-48. doi: 10.11648/j.ijrse.20170603.12
- Jahro, Iis Siti, (2009),*Analisis Penerapan Metode Praktikum pada Pembelajaran Ilmu Kimia di Sekolah Menengah Atas* : Jurnal Pendidikan Kimia,I(4):20-26.
- Keller, J.M. 1987. *Motivation Desingh For Learning Performance The ARCS Models Approach*, Tekhnologi Pendidikan, Metanoa Professional Guru Pembelajar, diakses 20 Januari 2017.
- Kemdikbud, 2013. Direktorat Pembinaan SMA, Ditjen Pendidikan Menengah, 2013, *Model Penilaian Peserta Didik SMA*, Jakarta: Kementrian Pendidikan dan Kebudayaan.
- Kemdikbud, 2013. *Permendikbud 32 2013, tentang Perubahan Peraturan Pemerintah no 19 tahun 2005, Standart Pendidikan Nasional Indonesia*: Jakarta: Pendidikan dan Kbudayaan Republik Indonesia.
- Kemdikbud, 2013. *Permendikbud 66 tahun 2013, tentang Standart Penilaian Pendidikan*, Jakarta: Kementrian Pendidikan dan Kebudayaan
- Kemdikbud, 2015. *Panduan Penilaian Untuk SMA*, Badan Pengembangan Sumber Daya Manusia Pendidikan dan Kebudayaan dan Penjamin Mutu, Jakarta: Pendidikan Kementrian Pendidikan dan Kebudayaan.
- Laila, T.L. 2016. *Pengembangan Penuntun Praktikum Kimia Dasar I Perguruan Tinggi Terintegrasi Pendekatan Inkuiri*. Tesis, Medan Program Pascasarjana Universitas Negeri Medan.
- Mahsa, K. 2014. *Transitioning to Inquiry Based Teaching: Exploring Science Teachers' Professional Development Experiences*. International Journal of Environmental & Science Education(2014), 9,285-309
- Manahan, S.E. 2005. *Green Chemistry*, Columbia. Missouri USA, ChemChar Research Inc.
- Michael, J.P. dan Michael, R.A. 2011. *An Inquiry Format Labortory Program for General Chemistry*,Journal of Chemical Education.
- Nahadi, Wiwi .S., dan Farida .S.2014.*Implementasi Model Pembelajaran Lingkungan Hidup Berbasis Konteks Berpendekatan Education For*

*Sustainable Development dan Pengaruhnya Terhadap Penguasaan Konsep dan Sikap Siswa*. Bandung : UPI.

- Nahid, S. dan Ahmmad, R. 2016. *Effective teaching methods in higher education: requirements and barriers* . J Adv Med Educ Prof. October 2016; Vol 4 No 4
- Nasution, H.A. 2016. Pengembangan Penuntun Praktikum Kimia dengan Menggunakan Model inquiry dan Project Based Learning Pada Materi Sistem Periodik Unsur, Tesis, Medan: Program Pasca Sarjana Universitas Negeri Medan.
- National Research Council, 2000. *Inquiry and the National Science Education Standart a Guide for Teaching and Learning*, Washington, DC: National Academy Press.
- Noroozi HM, Mohsenizadeh M, Jafari Sani H, Ebrahimzadeh S. 2010. *The effect of teaching using a blend of collaborative and mastery of learning models, on learning of vital signs: An experiment on nursing and operation room students of Mashhad University of Medical Sciences*. Iranian Journal of Medical Education. ; 11(5):541–53. Persian.
- Ni Kadek,A,P.2014. *Buku Pedoman Praktikum Kimia Ramah Lingkungan Untuk Pembelajaran Kimia SMA*.Bali : Universitas Pendidikan Ganesha
- Paul dan Dale, 2002. *Motivation in Education Theory Research and Aplication*, (2rd ed.): New York.
- Peratiwi, N.K dan Redhana I. W. dkk. 2014. *Buku Pedoman Praktikum Ramah Lingkungan Untuk Pembelajaran Kimia SMA*, Singaraja: e-journal Kimia Visvitalis Univeritas Pendidikan Ganesha 2014, 2(1).
- Purwanto. 2009. *Evaluasi Hasil Belajar*. Yogyakarta: Pustaka Pelajar.
- Rasyid dan Mansyur, 2009. *Penilaian Hasil Belajar*, Bandung: CV Wacana Prima.
- Ridwan, 2011. *Skala Pengukuran Variabel-Variabel Penelitian*: Bandung
- Rosmalinda, D., Rusdi, M., dan Hariyadi, B., 2013, *Pengembangan Modul Praktikum Kimia SMA Berbasis PBL (Prob lem Based Learning)*, Jurnal Edu Sains, 2(3): 55-77
- Salirawati. 2010. *Manajemen Laboratorium Kimia/IPA*. Yogyakarta: Jurusan Pendidikan Kimia FMIPA UNY.
- Salirawati, D. 2010. *Paktikum Sederhana Berbasis Lingkungan*, Makalah disampaikan dalam kegiatan Pengabdian Kepada Masyarakat, Pelatihan

Pengelolaan Laboratorium Kimia untuk Guru-Guru Kimia Kabupaten Sleman di SMA 1 kalasan. Yogyakarta, 15-22 Juni

- Salirawati, D. 2011. *Materi Pelatihan Kepala Laboratorium Kimia Bagi Guru-Guru Kimia Kabupaten Kulon Progo*, Yogyakarta: FPMIPA UNY
- Sanjaya, W. 2006. *Strategi Pembelajaran*. Jakarta : Kencana Prenada Media Group.
- Sardiman, A.M. 2011. *Interaksi dan Motivasi Belajar Mengajar*, Jakarta, P.T Raja Grafindo Persada.
- Sastrawijaya.T 1998. *Proses Belajar Mengajar Kimia*. Jakarta: Depdikbud Undang-Undang RI No 20 tahun 2003, Tentang Sistem Pendidikan Nasional Jakarta, Depdiknas
- Setyosari, P. 2012. *Metode Penelitian Pendidikan dan Pengembangan*, Jakarta: Kencana Prenada Media Group.
- Situmorang, M. 2010. *Pengembangan Bahan Ajar Kimia SMA/MA Inovatif dan Interaktif Berbasis Multimedia*, Pontianak: Prosiding Semirata 2015 bidang MIPA BKS-PTN Barat Universitas Tanjung Pura.
- Slameto, 2010. *Belajar Dan Faktor-Faktor Yang Mempengaruhi*, Jakarta: Rhineka Cipta.
- Sudaryono, 2012. *Dasar-Dasar Evaluasi Pembelajaran*, Yogyakarta: Graha Ilmu.
- Sugiyono, 2010. *Metode Penelitian Kuantitatif, Kualitatif dan R &D*, Bandung: Alfabeta.
- Sujana, 2010. *Penilaian Hasil Proses Belajar Mengajar*, Bandung: PT Remaja Rosdakarya.
- Supasorn, S. 2012. *Enhancing Undergraduates' Conceptual Understanding of Organic Acid-Base-Neutral Extraction Using Inquiry-Based Experiments*. Procedia Social and Behavioral Sciences, (Online),46 (1):4643 – 4650.
- Supranto. 2009. *Statistik 2 Edisi keenam*. Jakarta : Erlangga.
- Suyanti, R.D. 2010. *Strategi Pembelajaran Kimia*, Medan: Graha Ilmu.
- Tarigan, S. 2013. *Strategi Belajar Mengajar*, Medan: Unimed.
- Tatli, Z., & Ayas, A. (2010). *Virtual laboratory applications in chemistry education*. Procedia - Social and Behavioral Sciences, 9, 938–942. doi:10.1016/j.sbspro.2010.12.263.

- Trowbridge, L.w. dan Bybee, R.W, 1990, *Becoming a Secondary School Science Teacher* (4rd.ed), London, Merrill Publishing Company.
- Ural, E. 2016. *The Effect of Guided Inquiry Laboratory Experiments on Science Education Student's Chemistry Laboratory Attitudes, Anxiety and Achievement*, , Journal of Education and Training studies, Vol 4 No 4, Turkey: Kahramamaras Sutcii Imam University, ISSN 2324-805xe, ISSN 2324-8068, doi. 10.11114/jets.v4i4.1395 FTK.
- Vera, S. 2016. *The Effectiveness of Inquiry Learning Method to Enhance Students' Learning Outcome: A Theoretical and Empirical Review*. Journal of Education and Practice. ISSN 2222-1735 (Paper) Vol.7, No.3.
- Vesterinen V, Aksela M, Markku R. S. 2009. *Nature of Chemistry in the National Frame Curricula for Upper Secondary Education in Finland, Norway and Sweden*. Nordic Studies in Science Education Journal, Vol 5, No 2
- Viandhika. D, Sulisty. S dan Agung N. S. 2015. *Pengembangan multimedia interaktif dengan menggunakan program adobe flash untuk pembelajaran kimia materi hidrolisis garam SMA kelas XI*. Jurnal Pendidikan Kimia. 4(2), 23-31.
- Vlassi, Maria Dan Karoliota, A., 2013. The Comparison Between Guided Inquiry and Traditional Teaching Method. A Case Study For Teaching of Structure of Matter to 8 th Grade Greek Students, journal Social and Behavioral Sciences 93, 494-497.
- Wardencki, W.J.C.dan Namiecenik, J. dkk. 2004. *Green Chemistry Current and Future Issues*, Journal of Envirotmental Studies 14(4), 389-395.
- Wayan R. dan Maharani L, 2017. *Green Chemistry Practicum To Improve Student Learning Outcomes Of Reaction Rate Topic* . Bali :FMIPA Universitas Pendidikan Ganesha.
- Xu, H. & Talanquer, V. 2012. *Effect of the Level of Inquiry of Lab Experiments on General Chemistry Students' Written Reflections* Department of Chemistry and Biochemistry, Journal of Chemical Education, United States: University of Arizona, Tucson, Arizona 85721, dx.doi.org/10.1021/ed3002368| J. Chem. Educ.2013, 90, 21–28
- Yani, A.F. 2015. *Penuntun Praktikum Kimia SMA Kelas XI Pada Materi Hidrolisis Garam Sesuai Model Pembelajaran Penemuan dan Berbasis Proyek*, Tesis, Medan: Program Pasca Sarjana Universitas Negeri Medan.

Yunisfu. 2014. *Pembelajaran Kimia Unsur Menggunakan Konteks Keunggulan Lokal Tambang Timah Di Pulau Bangka Dan Pengaruhnya Pada Literasi Sains Siswa SMA Kelas XII*. Bandung : Universitas Pendidikan Indonesia.



THE  
*Character Building*  
UNIVERSITY