

## DAFTAR PUSTAKA

- Abraham, I. & Miller, R. 2008. *Does Practical Work Really Work? A Study The Effectiveness of Practical Work as a Teaching and Learning Method in School Science*, International Journal of Science Education, 30, (14), 1945-1969.
- Aliyanti, N.A., Cahyono, E. & Soeprodjo, 2014. *Keefektifan Inkuiri Terbimbing Berorientasi Green Chemistry Terhadap Keterampilan Proses Sains*, Jurnal Inovasi Pendidikan Kimia, vol8 (1) 1281-1288.
- Amelia, P., Yeniar, I., & Jati, A., 2011. *Hubungan Antara Persepsi Terhadap Metode Pembelajaran Kontektual Dengan Motivasi Belajar Biologi Siswa Kelas XI IPA SMAN 1 Pangkalan Kerinci, Riau*. Jurnal Psikologi Undip. 9(1), 92-102.
- Akker, J.V., 1999, Principles and Methods of Development Research (pp. 1-4), Dordrecht: Kluwer Academic Publisher,
- Anastas, P.T. & Heine, L.G. 2000. *Green Chemical Syntheses and Processes*, Washington DC: American Chemical Society
- Anggraeni & Desi, M. 2012. *Pengaruh Metode Inkuiri Terhadap Hasil Belajar Kerajinan Keramik Siswa Kelas VII SMP Swasta PAB S Patumbak Kabupaten Deli Serdang T.P 2011/2012*, Jurnal Pendidikan Kimia Unimed.
- Arrends, R., 2008. *Learning to Teach, (7<sup>rd</sup> ed.)*, New York: Mc Graw Company
- Arifin, M. 2000. *Strategi Belajar Mengajar*, Bandung: FPMIPA Pendidikan Kimia UPI
- Astuti, Rina dan Sunarno, 2012. *Pembelajaran IPA Dengan Pendekatan Keterampilan Proses Sains Menggunakan Metode Eksperimen Bebas Termodifikasi dan eksperimen Terbimbing Ditinjau Dari Sikap Ilmiah Dan Motivasi Belajar Siswa*, Universitas Sebelas Maret, Indonesia, pp 51-59, ISSN 2251-7893.
- Badlalo, L.H. & Sabbaghan, M. 2013. *A Comparative Study in Green Chemistry Education Curriculum in America and China*, Journal education, Teheran Iran: 6<sup>th</sup> International Conference on University Learning and Teaching, InCULT.
- Bagci, N. & Simsek, S. 1999. *The Influence Of Different Teaching Methods In Teaching Physics Subject On Student's*. The Journal of Gazi Education Faculty, 19(3), 78-88

- Barthlow, M.J., & 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
- Bakar, R., 2014. *Effect of Learning Motivation on Student High School West Sumatera*, Indonesia, International Journal of Asian Social Science, 4(6): 722-732
- Bahri, A., Corebirma, A.D., 2015. 4(4): The Contribution of Learning motivation and metacognitive Skill Outcome of Student With in Different Learning Strategy, Journal of Baltic Education, Vol.14(4), 448-510, ISSN 1648-3898
- Bayram & Oskay, O. 2013. *Effect of inquiry based Learning method on student motivation*, Turkey, journal Social and behaviour, education and teknik.
- Borg, W.R. & Gall, M.D. Gall. (1983). *Educational Research: An Introduction, Fifth Edition*. Longman : New York
- Bryant, R.J., Edmunt, A.M. 1987. *They like lab-centered science*, Journal The Sience Teacher 54(8), 42-45.
- 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
- Campbell, T. & Bohn, C. 2008. Science Laboratory Experiences of High School Students Across One State in The U.S. Descriptive Research from the Classroom. *Science Educator*, 17 (1): 36-44.
- Darmawan, I. & Supartono, 2015. *Practical Model-Based Development Chemistry Green Chemistry With Guided Inquiry Method In Madrasah Aliyah*, Jurnal Pendidikan Kimia, Department of Chemistry Semarang State University, Indonesia: 17-20
- Djamarah, S.B. & Zain, A. (2010). *Strategi Belajar Mengajar*, Jakarta: Rineka Cipta
- Djiwandono, S.E.W. 2006. *Psikologi Pendidikan*, Jakarta: Grasindo
- Dimiyati, Mujiono, 2009. *Belajar dan Pembelajaran*, Jakarta: Rhineka Cipta

- Emillia, R., Zakiah 2015. *Pengembangan Penuntun Praktikum Model Discovery dan Project Based Learning Pada Pembelajaran Asam dan Basa di SMA Kelas XI*, Jurnal Tabularasa PPs UNIMED Vol. 12. No 3 Desember 2015; 294
- 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.
- Hamalik, O. 2004. *Pendidikan Guru berdasarkan Pendekatan Kompetensi*, Jakarta: Bumi Aksara
- Hanum, Y.W. 2014. *Pengembangan Penuntun Praktikum Inovatif Untuk SMA/MA Kelas XII Sesuai Kurikulum 2013*, Tesis, Medan: Program Pasca Sarjana Kimia UNIMED.
- Harahap, & 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
- Hjeresen S.L, Schutt, D.L. & Boes, J.M., (2000). *Green Chemistry, and Education*, Journal of Chemical Education. Vol.7 no 12: 1543
- Hilarius & Tanjung, 2013. *Panduan Praktikum Kimia SMA/MA*, Jakarta: Bumi Aksara.
- Hofstein, A. & Mamlok. R. N., 2007, *The Laboratory in Science Education The Mate of the Art*. Journal of Chemistry Education Research and Practice 8 (2) : 105-107.
- Hofstein, A., Naamsebuah, R.M. 2011. *High- School Students Attitudes toward and Interest in Learning Chemistry*, International Year of Chemistry (Attitude toward Chemistry, Universidad Nacional Autonoma de Mexico, Facultad de Quimica, Educ.quim., 22(2): 90-102.
- Iswarini & Sunarno, W., 2015. *Pengembangan Model Pembelajaran Hidrolisis Garam Berbasis Inkuiri terbimbing Untuk Siswa Madrasah Aliyah Kelas XI*, Jurnal inkuiri, vol 4, p. 9-200. Department of Chemistry Semarang State University, Indonesia
- Jahro, I.S. 2009. Analisis Penerapan Metode Praktikum Pada Pembelajaran Ilmu Kimia di Sekolah Menengah Atas, Jurnal Pendidikan Kimia I, 4, 20-26

- Johari, J.M.C. & Rachmawati, M. 2010. *Chemistry for Senior High School Grade XI Semester 2*, Bandung: ESIS-Erlangga
- Juntunen, M., Aksela, M. 2013. *Life-Cycle Analysis And Inquiry-Based Learning In Chemistry*, *Science Education International Journal*, vol 24, Issue 2, 2013, 150-166, The Unit of Chemistry Teacher Education, Finland: Department of Chemistry University of Helsinki.
- Khazanah, A.Z., (2013). *Meningkatkan Motivasi Belajar Siswa Underachiever Melalui Layanan Bimbingan Kelompok Pada Siswa SD Negeri Pekunden Semarang*. Skripsi FIP Jurusan Bimbingan dan Konseling. Universitas Negeri Malang.
- Kemdikbud, 2013. Direktorat Pembinaan SMA, Ditjen Pendidikan Menengah, 2013, *Model Penilaian Peserta Didik SMA*, Jakarta: Kementerian Pendidikan dan Kebudayaan.
- Kemdikbud, 2013. *Permendikbud 81A 2013 tentang Implementasi Kurikulum 2013*, Jakarta: Kementerian Pendidikan dan Kebudayaan
- Kemdikbud, 2014. *Materi Pelatihan Guru Implementasi Kurikulum 2013 Tahun Ajaran 2014/2015 Mata Pelajaran Kimia SMA/SMK*, Badan Pengembangan Sumber Daya Manusia dan Penjamin Mutu Pendidikan, Jakarta: Kementerian Pendidikan dan Kebudayaan.
- Kemdikbud, (2007). *Manajemen Pembelajaran Laboratorium dan Model Penilaian Mata Pelajaran Matematika dan IPA (Program Akselerasi)*, Jakarta: Dirjen Pendidikan Dasar dan Menengah Kementerian Pendidikan dan Kebudayaan.
- Kemdikbud, (2002). *Pedoman Pendaya gunaan Peralatan Laboratorium Kimia Sekolah Menengah Umum*, Pendidikan Menengah Umum, Jakarta: Kementerian Pendidikan dan Kebudayaan.
- Kulthau, C.C. & Maniotes, L.K, 2012. *Guided Inquiry Design A Framework For Inquiry In Your School*, Santa Barbara, ABC-CLIO, LLC.
- Laila, T.L. 2016. *Pengembangan Penuntun Praktikum Kimia Dasar I Perguruan Tinggi Terintegrasi Pendekatan Inkuiri*. Tesis, Medan Program Pascasarjana Universitas Negeri Medan.
- Loretta, N.N. & Victoria, V.O. 2013. *Effect of Guided Inquiry with Analogy Instructional Strategy On Students Acquisition of Science Process Skills*, *Journal of Education and Practice*, ISSN 2222-1735 (Paper) ISSN 2222-288X (Online), Dept of Science Education, Nigeria: University of Nigeria Nsukka- Enugu State.

- Manahan, S.E. 2005. *Green Chemistry*, Columbia. Missouri USA, ChemChar Research Inc.
- Manalu, E.T. 2016. *Pengembangan Penuntun Praktikum Kimia Berbasis Kontekstual Terintegrasi Nilai-Nilai Karakter Pada Materi Sistem Koloid*, Tesis, Medan: Program Pasca Sarjana Universitas Negeri Medan.
- Magfiral, Ulfa, S., dkk., 2015, *Penerapan Metode Praktikum Berbasis Inkuiri Terbimbing Pada Materi Larutan Penyangga Kelas XI IPA SMA*, Jurnal Pendidikan Kimia UNTAN.
- Michael, J.P. & Michael, R.A. 2011. *An Inquiry Format Laboratory Program for General Chemistry*, Journal of Chemical Education.
- Murdock, & Tamera, B. 2006. *Motivational Perspectives on Student Cheating Toward an Integrated Model of Academic Dishonesty*, Kansas City. Article Department of Psychology University of Missouri.
- Mellyzar dan Silaban, R., 2013. *Efektifitas Pembelajaran untuk Meningkatkan Hasil Belajar dan Kreativitas Siswa pada Pelajaran Kimia di Sekolah Menengah Atas*, Jurnal Pendidikan Kimia, **5(2)**: 91-96.
- Narula, M. & Nagar, P. 2013. *Relationship Between Student's Peer Performance and Class Attendance in a Programming Language Subject in a Computer Course*, International Journal of Computer Science and Mobile Computing, , Departemen of Statistics, University of Rajasthan, Jaipur, India. V.2 (p.206-210), ISSN 2320-088X
- National Research Council, 2000. *Inquiry and the National Science Education Standard a Guide for Teaching and Learning*, Washington, DC: National Academy Press.
- Nworgu, L.N. & Otum, V.V. 2013. *Effect of Guided Inquiry with Analogy Instructional Strategy On Students Acquisition of Science Process Skills*, Journal of Education and Practice, Dept of Science Education, Nigeria: University of Nigeria Nsukka- Enugu State, ISSN 2222-1735 (Paper) ISSN 2222-288X (Online)
- Oluwafemi, M.A. 2015. *Enhancing Effective Chemistry Learning Through Hipermedia Instructional Mode Of Delivery*, European Journal Of Education Research, (5), Nigeria: Osun State University. ISSN 1.27-34

- Öz, M., 2014. *The Impact of Inquiry Process on the Cognitive Process Dimensions of Nontraditional Writing*, Mediterranean Journal of Social Sciences, Kastamonu University, Faculty of Natural Sciences, Master Student Doi:10.5901/mjss.v.5(20) p.1158-1160
- Paul, D., 2002. *Motivation in Education Theory Research and Application*, (2nd ed.): New York.
- Peratiwi, A.K., & Redhana I. W. 2014. *Buku Pedoman Praktikum Ramah Lingkungan Untuk Pembelajaran Kimia SMA*, Singaraja: e-journal Kimia Visvitalis Univeritas Pendidikan Ganesha 2014, 2(1)
- Putri, L.P., & Farida, 2014. *Pengembangan Buku Penuntun Praktikum IPA Berbasis Inkuiri Terbimbing Untuk SMP Kelas VII Semester II*, Jurnal Pendidikan Biologi, Padang: Universitas Negeri Padang.
- Poulsen, A., Lam, K., & Cisneros, S. (2008). *Motivation Desingn For Learning Performance The ARCS Models Approach*, Journal of Instructional Development. **10(3)**, 2-10.
- Reigeluth, C.M. 1993. *Instruactional – Design Theories And Models: an Overview of Their Current Status*, London: Lawrence Erlbaum associates Publisher.
- Rasyid, & Mansyur, 2009. *Penilaian Hasil Belajar*, Bandung: CV Wacana Prima
- Ridwan, 2007. *Skala Pengukuran Variabel-Variabel Penelitian*: Bandung
- Rife, W. 1992. *Essentials of Chemistry*, California Polytechnic State, California: University San Luis Obispo.
- Salirawati, D. 2010. *Paktikum Sederhana Berbasis Lingkungan*, Makalah, Pelatihan Pengelolaan Laboratorium Kimia untuk Guru-Guru Kimia Kabupaten Sleman di SMA 1 kalasan. Yogyakarta: 15-22
- Salirawati, D. 2011. *Materi Pelatihan Kepala Laboratorium Kimia Bagi Guru-Guru Kimia Kabupaten Kulon Progo*, Yokyakarta: FPMIPA UNY: 96-107
- Sanjaya, W. 2011. *Perencanaan dan Desain Sistem Pembelajaran*, Jakarta: Prenanda Media Grup.
- Sardiman, A.M. 2011. *Interaksi dan Motivasi Belajar Mengajar*, Jakarta, P.T Raja Grafindo Persada.
- Suyanti, R.D. 2010. *Strategi Pembelajaran Kimia*, Medan: Graha Ilmu.

- Sardiman, A.M. 2014. *Interaksi dan Motivasi Belajar Mengajar*, Jakarta: Raja Grafindo Persada
- 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, 2010a. *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.
- Suharta, & Lyna.P. 2013. *Pengembangan Karakter Kejujuran dan Kemandirian Siswa Melalui Penerapan Model Pembelajaran Kooperatif Berbasis Masalah*. Medan: Prosiding Seminar Hasil Penelitian Lembaga Penelitian Unimed Bidang Pendidikan.
- Sunardi, 2006. *Bank soal Kimia untuk SMA Kelas X,XI dan XII*, Bandung: IKAPI:
- Suswanto, H.,Asfani K., & Prasetya,AW., 2016. *Kontribusi Kinerja Mengajar, Kepuasan Belajar dan Motivasi Berprestasi Terhadap Pencapaian Kompetensi Siswa*, Global Journal of Engineering Education, 19 (1), 66-71
- Susilowati, D., 2009 *Pelaksanaan Pembelajaran Sains di Sekolah Menengah Pertama Rintisan Bertaraf Internasional Daerah Istimewa Yogyakarta*. Thesis, Yogyakarta: Program Pasca Sarjana Universitas Negeri Yogyakarta.
- Sastrawijaya, T. 1998. *Proses Belajar Mengajar Kimia*. Jakarta: Depdikbud Undang-Undang RI No 20 tahun 2003, Tentang Sistem Pendidikan Nasional Jakarta, Depdiknas
- Tahar, I., 2006, *Hubungan Kemandirian Belajar dan hasil Belajar Pada pendidikan Jarak Jauh*, Jurnal Pendidikan Jarak Jauh 7 (2), 91-101

- Tarigan, S. 2013. *Strategi Belajar Mengajar*, Medan: Unimed.
- Tezcan, H., & Bilgin, E., 2004. *Affects Of Laboratory Method And Other Factors On The Student Success In The Teaching Of The Solvation Subject At The High Schools*. *J Gazi Educ Fac* ,24:175-191.
- Tim MIPA KDP, 2014. *Buku Petunjuk Eksperimen Kimia*, Jakarta: PT Katalis Datesa Prima.
- Trianto, 2000. *Model-model Pembelajaran Inovatif Berorientasi Konstruktivistik*, Surabaya: Prestasi Pustaka
- Trowbridge, L.w. & Bybee, R.W, 1990, *Becoming a Secondary School Science Teacher* (4rd.ed), London, Merrill Publishing Company.
- Tuysuz, C. 2010. *The Effect of the Virtual Laboratory on Student's Achievement and Attitude in Chemistry*, International Online Journal of Educational Sciences (IOJES), , Turkey: Mustafa Kemal University, ISSN: 1309-2707 (1), 37-53
- Tuan, H.L., Tsai, C., Chin, C.C., & Cheng, S.F., 2005. *Investigating The Effectiveness of Inquiry Instruction On The Motivation Of Different Learning Style Student*, International Journal of Science and Mathematic Education, National Sience Council, Taiwan, 541-566
- Umakant, C. 2014. *Green Chemistry; Enviromentally Benign Chemistry*, Departement of Chemistry, Art Science & Commerce College, Naldrurg Osmanabad: International Journal of Advange Research in Chemical Science (IJARCS), 110-115.
- 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,
- Vlassi, M. & 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.
- Veerma, S. & Doshi, J., 2017. *Correlation Between Text Book Usage and Academic Performance of Student in Higher Education Using R*, Proceeding of International Comperence in Communication and Network, Spinger Nature Singapore, Pte Ltd, DOI 110.1007/978-981-10-2759-5-2



- Wardencki, W.J.C., Cury o,J., & Namieceni, J. 2004. *Green Chemistry Current and Future Issues*, Journal of Envirotmental Studies 14(4), 389-395.
- Watoni, A.H. 2014. *Kimia Untuk SMA/MA Kelas XI*, Bandung: Yrama Widya
- Walker, J. P. 2016. *Using The Laboratory To Engage All Students In Science Practices*, journal *Chem. Educ. Res. Pract.*, DOI: 10.1039 / C6RP00093B
- Wahyuningsih, A.S., & Rohmah, J., 2017, *Penerapan Prinsip Green Chemistry Dalam Pengembangan Modul Praktikum Untuk Mata Kuliah Larutan*, Proceeding Seminar Nasional Pendidikan Universitas Muhammadiyah Sidoarjo, ISBN 978-602-70216-2-4; 1-10
- Wirjosoemarto, K. & Adisendjaja, Y.H. dkk. 2004. *Tekrnik laboratorium*, Universitas Pendidikan Indonesia, Jakarta: JICA:.
- 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
- Xu, H. &Talanquer, V. 2013. *Effect of the Level of Inquiry on Student Interactions in Chemistry Laboratories*, Journal of Chemical Education, Department of Chemistry and Biochemistry, University of Arizona Tucson: Arizona 85721 United States, Dx Doi. Org /10.1021/ ed 3002946 I.J. Chem.Edu 2013, 90, 29-36
- 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. .
- Yulia, R.H. 2016. *Pengembangan Penuntun Praktikum Inovatif Pada Pokok Bahasan Senyawa Karbon Untuk Kelas XII SMA/MA*, Tesis, Medan: Program Pasca Sarjana Universitas Negeri Medan.
- Zakiah, 2015. *Pengembangan Penuntun Praktikum Tipe Discovery dan Project Based Learning pada Pembelajaran Larutan Elektrolit dan Non Elektrolit di SMA*, Jurnal Pendidikan Kimia 7 (11), 70-79.