

DAFTAR PUSTAKA

- Abidin, Y. (2014). *Desain Sistem Pembelajaran Dalam Konteks Kurikulum 2013*. Bandung: PT. Refika Aditama.
- Abinakannda, M.O. (2016). *Influence Of Problem Based-Learning In Chemistry On Achievement Of High School Students In Osun State Nigeria*. International Journal of Education, Learning and Development. Vol 4, No. 3, hal 55-63.
- Aidoo, B., Boateng S.K., Kissi, P S., dan Ofori, I. (2016) *Effect of Problem-based Learning on Students Achievement in Chemistry*. Journal of Education and Practice Vol 7, hal 103-108.
- Alejandro, R.M., Rosario, C.R dan Juan, B.G. (2010). *Problem Based Learning (PBL): Analysis of Continuous Stirred Tank Chemical Reactors with a Process Control Approach*. International Journal of Software Engineering & Applications (IJSEA), Vol.1, hlm.54-71.
- Arikunto, S. (2009). *Prosedur Penelitian: Suatu Pendekatan Praktek*. Jakarta: Rineka Cipta.
- Arifin, M. (2003). *Strategi Belajar Mengajar Kimia*. Bandung: Jurusan Pendidikan Kimia UPI.
- Armitage, A., Pihl,O., dan Ryberg, T. (2015). *PBL and Creative Process*. *Journal of Problem Based Learning in Higher Education*. Vol. 3, hal 1-4.
- Artdej, R., Ratanaroutai, T., Coll, R.K. & Thongpanchang, T. (2010). *Thai Grade 11 Students' Alternative Conceptions for Acid–Base Chemistry*. *Research in Science & Technological Education*. 28(2), hlm. 167-183.
- Alzoubi, MA., AlQudah, MF., Albursan, IS., Bakhiet, SF., dan Abduljabar, AS. (2016). *The Effect of Creaative Thinking Education in Enanching Creative Self-Efficacy and Cognitive Motivation*. *Journal of Education and Development Psychology*. Vol 6. No. 1, hal. 117-130.

- Brady, J, Jespresen dan Frederick. (2012). *General Chemistry 6th edition*. John Wiley & Sons Singapore Pte. Ltd.
- Bungin, B. (2010). *Penelitian Kualitatif: komunikasi, ekonomi, kebijakan publik dan ilmu sosial lainnya*. Jakarta: Kencana Prenada Media Group.
- Cetingul, P. I. & Geban, O. (2005). *Understanding of Acid-Base Concept by Using Conceptual Change Approach*. Journal of Education. 29, hlm. 69-74.
- Coe, A and Jesine, P.G. (1999). *An Investigation of Electrolyte Solutions Using a Simple Conductivity Apparatus*. New York: Book Croosle
- Chang, R. (2005). *Kimia Dasar: Konsep-konsep Inti Jilid I*. Jakarta: Erlangga.
- Craft, A. (2001). *An Analysis of Research and Literature on Creativity in Education*. Qualification and Curriculum Authority.
- Cresswell, J.W. (2008). *Educational Research, Planning, Conducting, and Evaluating Qualitative & Quantitative Approaches*. London: Sage Publications.
- Dahar, R.W. (2003). *Teori-Teori Belajar*. Jakarta: Erlangga.
- Darmadi, H. (2014). *Metode Penelitian*. Bandung: Alfabeta.
- Depdiknas. (2003). *Pendekatan Kontektual (Contextual Teaching and Learning)*. Jakarta: Dirjen Dikdasmen.
- Detik.com (2015). Hasil UN Kimia SMA-SMK. [online] Tersedia <https://news.detik.com/berita/3206228/nilai-rata-rata-un-sma-2016-turun-6-poin-dari-tahun-2015>
- Dimiyati & Mudjiono. (2004). *Belajar dan Pembelajaran*. Jakarta : Proyek Pembinaan dan Peningkatan Mutu Kependidikan, Dirjen Dikti Depdikbud.
- Duke, F.R. (1972). *Creativity on Science*. Journal of Chemical Education. No 49, volume 6, hlm. 382-384.
- Evans, M., Hastings, N. & Peacock, B. (1993). *Statistical Distributions*. New York: Wiley.

- Firman, H. (2013). *Evaluasi Pembelajaran Kimia*. Bandung: Jurusan Pendidikan Kimia FPMIPA UPI
- Fraenkel J.R, Wallen N.E., & Hyun H.H. (2011). *How to Design and Evaluate Research in Education* 8th ed. Newyork : Mc.Grawhil.
- Furchan, A. (2004). *Pengantar Penelitian dalam Belajar*. Yogyakarta: Pustaka Belajar.
- Germaine, R., Richards, J., Koeller, M., dan Irastorza, C.S. (2016). *Journal of Research in Innovative Teaching : Purposeful Use of 21st Century Skills in Higher Education*. National University; Volume 6, hlm 19-29.
- Gurses, A. (2015). *Teaching Of The Concept Of Enthalpy Using Problem Based Learning Approach*. *Procedia Social and Behavioral Sciences* (197), 2390–2394.
- Johari, J.M.C dan Rachmawati, M. (2007). *Kimia 2 SMA dan MA untuk Kelas XI*. Jakarta: Esis.
- Hake, R.R. (1998). *Analyzing Change/Gain Scores*. USA: Indiana University.
- Kemendikbud. (2006). *Permendikbud No. 22 Tentang Standar Isi untuk Satuan Pendidikan Dasar dan Menengah*. Jakarta: Kementerian Pendidikan dan Kebudayaan.
- Ken, K., Nielson, A dan Greenhill, V. (2010). *21St Century Knowledge and Skills in Educator Preparation*. American Association of Colleges of Teacher Education and the Partnership for 21st Century Skills (P21) hlm 1-40.
- Kerlinger, F.N dan dan Lee, H.B. (2000). *Foundation of Behaviorial Research (Fourth Edition)*. USA: Holt, Reinnar, & Wiston, Inc.
- Komalasari, K. (2010). *Pembelajaran Kontekstual; Konsep & Aplikasi*. Bandung: Refika Aditama.
- Lawshe, C.H. (1975). *A Quantitative Approach To Content Validity*. *Journal: Personnel Psychology*, hlm.563-575.

- Lee, K H. (2005). *The Realitionship Between creative Thinking Ability and creative Personality of Preshoolers*. International Education Journal, Vol 6 (2), hlm 194-199.
- Lemay, H.E., Brown, T.E., dan Bruce, E. (2012). *Chemistry : The Central Science*. New York: Pearson Pretince Hell.
- Liliasari dan Tawil, M. (2013). *Berpikir Kompleks dan Implementasinya dalam Pembelajaran IPA*. Makasar: Badan Penerbit UNM.
- Lylod, M dan Kowalske. (2015). *The Influence of PBL on Students' Self-efficacy Beliefs in Chemistry*. Journal of Chemistry and Education Practice.
- Mar'at, S. (2006). *Psikologi Perkembangan*. Bandung: PT. Rosda Karya.
- Maxwell, J.A. (1996). *Qualitative Research Design: an introduction approach*. London: Sage.
- _____.(2004). *The 21 Irrefutable laws of Leadership*. Batam; Interaksara.
- McMurry, John, dan Robert C. Fay. (2003). *Chemistry Fourth Edition*. New Jersey: Prentice Hall.
- Minium, E.W., King, B.M. & Bear, G. (1970). *Statistical Reasoning in Psychology and Education*. Canada : Wiley.
- Moleong, J.L. (2010). *Metode Penelitian Kualitatif*. Bandung: PT. Remaja Rosdakarya.
- Munandar, U. (2002). *Kreativitas & Keberbakatan Strategi Mewujudkan Potensi Kreatif & Bakat*. Jakarta: PT. Gramedia Pustaka Utama.
- _____.(2004). *Pengembangan Kreativitas Anak Berbakat*. Jakarta: Rineka Cipta.
- Mulyoto. (2013). *Strategi Pembelajaran di Era Kurikulum 2013*. Jakarta: Prestasi Pelajar.

- Musbikin, I. (2006). *Mendidik Anak Kreatif Ala Einsten*. Yogyakarta: Mitra Pustaka.
- Partnership for 21st Century Skills. (2011). *21st Century Skills, Education, and Competitiveness*. 21stcentury.org
- Pervin. (1984). *Personality: Theory and Research Fourth Edition*. Canada : John Wiley and Sons, Inc
- Prihadi, S.F. (2004). *Assesment Centre*. Jakarta: PT Gramedia Pustaka Utama.
- Purba, M. (2006). *Kimia Untuk SMA Kelas X*. Jakarta; Erlangga.
- Rachmawati, Yeni dan Kurniati, E. (2005). *Strategi Pengembangan Kreativitas Pada Anak Usia Taman Kanak-kanak*. Jakarta: Depdikbud.
- Riduwan. (2003). *Skala Pengukuran Variabel-variabel Penelitian*. Bandung: Alfabeta.
- Rusman. (2010). *Model-model Pembelajaran*. Bandung; Mulia Mandiri Press.
- Rusmono. (2012). *Strategi Pembelajaran dengan Problem Based Learning Itu Perlu*. Bogor: PT.Ghalia Indonesia.
- Rustaman, N.Y. (2005). *Strategi Belajar Mengajar Biologi*. Malang : UM Press.
- Rustini, E. (2009). *Pengembangan Strategi Pembelajaran Intertekstual Pada Materi Larutan Elektrolit dan Non-elektrolit SMA kelas X*. Skripsi Sarjana pada FPMIPA UPI : tidak diterbitkan.
- Sardiman, A.M. (2003). *Interaksi & Motivasi Belajar Mengajar*. Jakarta: Rajawali Press.
- Sekaran, U. (2000). *Metode Penelitian untuk Bisnis, edisi keempat*. Penerjemah: Kwan Men Yon. Jakarta: PT. Salemba Empat
- Setyowati, G. (2012). *Penyusunan Bahan Ajar*. Makalah FIP universitas Negeri Malang. [Tidak Diterbitkan]

- Silberman, M. (2002). *Active Learning : 101 Strategies to Teach any Subject* (Terjemahan Sarjuli, Adzfar Ammar, Sutrisno, et. Al.). Boston : Allyn and Bacon.
- Slameto. (2003). *Belajar dan Faktor-faktor yang Mempengaruhinya*. Jakarta: Rineka Cipta
- Snelbeker, G. (1974). *Learning Theory, Instruction Theory and Psycodoucal Design*.New York; Mc. Graw Hill.
- Sudjana, N dan Ibrahim, M.A. (2012). *Penelitian dan Penilaian Pendidikan*. Bandung: Sinar Baru Algesindo.
- Sugiyono. (2007). *Metode Penelitian Kuantitatif Kualitatif dan R & D*. Bandung: Alfabeta.
- Sukmadinata, NS. (2008). *Metode Penelitian Pendidikan*. Bandung : PT. Remaja Rosdakarya.
- Tan, O.S. (2009). *Problem Based Learning Innovation: Using Problem to Power Learning in the 21st Century*. Singapore: Cengage Learning Asia Pte Ltd.
- Tarhan, L dan Sesen, BA. (2013). *Probelm Based Learning In Acids And Bases: Learning Achievments And Students Beliefs*. Journal of Baltic Science Education, Vol.12, No.5, hlm. 565-578.
- Tim Penulis. (2003). *Kamus Besar Bahasa Indonesia: Edisi Ketiga*. Jakarta Balai Pustaka.
- Tim Penulis. (2015). *Pedoman Penulisan Karya Ilmiah*. Bandung: Universitas Pendidikan Indonesia.
- Tosun, C dan Senocak, E. (2013). *The Effects of Problem-Based Learning on Metacognitive Awareness and Attitudes toward Chemistry of Prospective Teachers with Different Academic Backgrounds*. Australian Journal of Education.

- Trianto. (2009). *Mendesain Model Pembelajaran Inovatif-Progresif*. Jakarta Kencana Prenada Group.
- Warsono dan Hariyanto. (2012). *Pembelajaran Aktif Teori dan Asesmen*. Bandung: Remaja Rosda Karya.
- Wiersma, W. & Jurs, S.G. (2009). *Research methods in education (an introduction)*. Peason: Boston.
- Widoyoko, E.P. (2009). *Evaluasi Program Pembelajaran*. Yogyakarta: Pustaka Pelajar.
- Wiriatmadja, R. (2002). *Pendidikan Sejarah Indonesia; Prespektfi Lokal, Nasional dan Global*. Bandung; HistoriaUtama Press.
- Woods, D.F. (2003). *ABC of Learning and Teaching in Medicine: Problem-based Learning*. BMJ Vol 326
- Yeung, A., Chio., Mok dan Lai. (2003). *Problem Design in Problem-based Learning and Self Directed Learning Practice*. Innovation in Education and Teaching International, Vol 1 No 40, hal 237-244.
- Yoon, A.,Woo, A.J., Treagust, D., dan Chandraseragan, A. (2012). *The Efficacy of Problem Based Learning in an Analytical Laboratory Course for Pre-Chemistry Teachers*. International Journal of Science Education, hlm. 1-24
- Zasmita, A.A. (2015). *Penerapan Model Pembelajaran POGIL untuk Meningkatkan Kemampuan Kognitif dan Keterampilan Proses Sains Siswa SMA*. (Tesis, Universitas Pendidikan Indonesia, 2015, tidak diterbitkan).
- Zumdahl, S dan Zumdahl, S.S. (2015). *Chemistry An Atoms First Approach 2nd Edition*. Brooks Cole.