

DAFTAR PUSTAKA

- Abraham, I., dan Millar, R. (2008). Study of The Effectiveness of Practical Work as a teaching And Learning Method In School Science. *International Journal Of Science Education*, 30 (14), 1945-1969.
- Adawiyah, R. (2014). *Pengembangan Soal Matematika Mengacu Pada Standar PISA*. (Skripsi). UIN Sunan Ampel Surabaya, Surabaya.
- Afifi, R. (2017). Penerapan metode demonstrasi sebagai upaya meningkatkan hasil belajar siswa pada pembelajaran IPA. *Jurnal Wahana Pendidikan*, 4 (1):68-85.
- Afiyati, H. S. (2012). *Penerapan Praktikum Biologi Terhadap Penguasaan Konsep Siswa Pada Pokok Bahasan Sistem Pencernaan Makanan Di Kelas Xi IPA MAN Buntet Pesantren Cirebon*. (Skripsi). Institut Agama Islam Negeri (Iain) Syekh Nurjati Cirebon, Cirebon.
- Agip, Z., et al. (2009). *Penelitian Tindakan Kelas untuk Guru SD, SLB, dan TK*. Bandung : Yrama Widya.
- Aguado, N. A. (2015). Teaching Research Methods: Learning by Doing. *Journal of Public Affairs Education*, 15(2): 251–260.
- Aisyah. (2014). *Pengaruh metode demonstrasi untuk meningkatkan hasil belajar ipa siswa pada materi pembiasan cahaya*. (Skripsi). Universitas Islam Negeri Syarif Hidayatullah, Jakarta.
- Ahopelto, I., et al. (2011). Future elementary school teachers' conceptual change concerning photosynthesis. *Scandinavian Journal of Educational Research*, 55 (5), 505-515.
- Ameyaw, Y. (2016). Evaluating Students' Misconceptions Of Photosynthesis And Respiration In A Ghanaian Senior High School. *International journal of advanced biological research*. 6(2): 202-209.
- Amir, R., dan Tamir, P. (1994). In-depth analysis of misconceptions as abasis for developing research-based remedial instruction: The ease of photosynthesis. *Journal of The American Biology Teacher*, 56, pp, 94-100.
- Anderson, L., dan Krathwohl, d.r. (2001). *A Taxonomy For Learning, Teaching, And Assessing : A Revision Of Bloom's Taxonomy Of Educational Objectives*. New York : Longma.
- Anderson, C.W., et al., (1990). The effect of instruction on college non majors' conception of respiration and photosynthesis. *Journal of research in science teaching*, 27 (8): 761-776.

- Andrade, H. G. (1997). *Understanding Rubrics*. [Online]. Diakses dari: <http://www.middleweb.com/rubricsHG.html>.
- Ango, M.L. (2012). Mastery of Science Process Skills and Their Effective Use in the Teaching of Science: An Educology of Science Education in the Nigerian Context. Nigeria. *International Journal of Educology*, 16 (1).
- Apriyanti, I. (2015). *Pengaruh Strategi Pembelajaran Aktif Terhadap Prestasi Belajar*. Bandung : Universitas Pendidikan Indonesia.
- Arikunto, S. (2001). *Dasar-dasar evaluasi Pendidikan*. Jakarta: Bumi aksara.
- Ausubel, D. (1968). *Educational psychology: A_cognitive view*. Boston: Holt, Rinehart & Winston, Inc.
- Badruzaman, F. M. (2016). *Pengaruh Penggunaan Metode Demonstrasi Berbantuan Video Tutorial dalam Meningkatkan Hasil Belajar Siswa Aspek HOTS*. (Skripsi). Universitas Pendidikan Indonesia, Bandung.
- Bahar, M., et al. (1999). Revisiting Learning Difficulties in Biology. *Journal of Biological Education*, 33 (2), 84-86.
- Bahri, S. 2005. *Strategi Belajar Mengajar*. Jakarta : Rineka Cipta.
- Barker, M. dan Carr, M. (1989). "Teaching And Learning About Photosynthesis. Part 1: An Assessment In Terms Of Student Prior Knowledge". *International journal science education*. 11 (1), 49-56.
- Bell, B. (1985). Students' ideas about plant nutrition: What are they?. *Journal of Biological Education*. 19(3), 213-218.
- Bloom, B. S. (Ed.). (1956). *Taxonomy of educational objectives, Handbook I: The cognitive domain*. New York, NY: McKay.
- Borrmann, T. (2008). Laboratory Education In New Zealand. *Eurasia journal of mathematics, Science & Technology Education*, 4 (4), 327-335.
- Braund, M. (1998). Trends in children's conceptions of vertebrate and invertebrates. *Journal of Biological Education*, 32(2), 112-119.
- Brooks, J. G., dan Brooks, M. G. (1993). *In search of understanding: The case for constructivist classrooms*. Alexandria, VA: Association for Supervision and Curriculum Development.
- Brookhart, S.M. (2010). *How to assess higher-order thinking skills in your classroom*. Alexandria, virginia USA:ASCD.

- Bruner, J.S. 1960. *The Process of Education*. Cambridge: Harvard University Press.
- Çapa, Y. (2000). *An Analysis of 9th Grade Student's Misconceptions Concerning Photosynthesis and Respiration in Plants*. (Unpublished Master Thesis). Middle East Technical University, Ankara.
- Campbell, N.A., et al. (2010). *Biologi Edisi Kedelapan Jilid 1*. Jakarta: Erlangga.
- Carlsson, B. (2002). Ecological understanding 1: ways of experiencing photosynthesis. *International Journal of Science Education*, 24 (7), 681-699.
- Carlsson, B., (2010). Ecological understanding 1: Ways of experiencing photosynthesis. *International Journal of Science Education*. 24(7):681-699.
- Chan, C. (2009) *Assessment: Presentation, Assessment Resources*. University of Hong Kong. [Online]. Diakses dari <http://ar.cetl.hku.hk>.
- Chinedu, C.C., et al. (2015). Strategies For Improving Higher Order Thinking Skills In Teaching And Learning Of Design And Technology Education. *Journal of Technical Education and Training*, 7 (2).
- Cimer, A. (2004). *A Study Of Turkish Biology Teachers' And Students' Views Of Effective Teaching In School And Teacher Education*. (Dissertation). Nottingham : The University of Nottingham.
- Cimer, A. (2012). What Makes Biology Learning Difficult And Effective: Students' Views. *Educational research and review*, 7 (3), pp.61-71.
- Csikszentmihalyi, M. (1990). *Flow: The psychology of optimal experience*. NY: Harper Collins.
- Csikszentmihalyi, M., Rathunde, K., & Whalen, S. (1993). *Talented teenagers: The roots of success and failure*. New York: Cambridge University Press.
- Csikszentmihalyi, M., & Schneider, B. (2000). *Becoming adult: How teenagers prepare for the world of work*. New York: Basic Books.
- Dahar, R.W. (1996). *Teori-teori belajar*. Jakarta : Erlangga.
- Daluba, N.E. (2013). Effect of Demonstration Method of Teaching on Students' Achievement in Agricultural Science. *World Journal of Education*, 3 (6).
- Davis, B., Summers, M. (2014). Applying Dale's Cone of Experience to increase learning and retention: A study of student learning in a foundational leadership course. *QScience Proceedings:Engineering Leaders Conference 2014*. USA : Purdue University.

- Departemen Pendidikan Nasional. (2005). *Peraturan Pemerintah Nomor 19 Tahun 2005: tentang Standar Nasional Pendidikan*. Jakarta: Depdiknas.
- Departemen Pendidikan Nasional. (2003). *Undang- Undang Republik Indonesia Nomor 20 Tahun 2003 tentang Sistem Pendidikan Nasional*. Jakarta: [Online].
- Djamarah, S.B. (2005). *Guru dan Anak Didik dalam Interaksi Edukatif*. Jakarta : Rineka Cipta.
- Dwijayanti, G dan Siswaningsih, W. 2005. *Keterampilan Proses Siswa SMU Kelas II pada Pembelajaran Kesetimbangan Kimia melalui Metode Praktikum*. [Online]. Diakses dari : http://file.upi.edu/Direktori/fpmipa/jur_pend_kimia/195612061983032-gebi_dwiyanti/makalah_hispipai.pdf.
- Eisen, Y., dan Stavy, R. (1988). Students' understanding of photosynthesis. *Journal of The american biology teacher*, 50 (4), 208-212.
- Eisen, Y., Stavy, R., dan Yaakobi, D. (1987). How students ages 13–15 understand photosynthesis. *International Journal of Science Education*, 9 (1), 105-115.
- Fensham, P. (1998). *Development And Dilemmas In Science Education*. London: The Falmer Press.
- Firmansyah, D. (2015). Pengaruh strategi pembelajaran dan minat belajar terhadap hasil belajar matematika. *Jurnal Pendidikan UNISKA*, 3 (1).
- Fraenkel, J.R., Wallen, N.E., Hyun, H.H. (2012). *How to design & evaluation research in education eight edition*. New york : McGraw Hill Companies.
- Finley, F. N., et al (1982). Teachers' Perceptions Of Important and Difficult Science Content. *Journal of Science Education*, 66(4), 531 - 538.
- Finley, F.,et al. (1992). A Summary of research in science education. *Journal of Science Education*. 76 (3): 239 - 254.
- Finley, F.N., Stewart, J. And Yarroch, W.L. (1992). Teachers perception of important and difficult science content. *Journal of Science education*, 66 (4), 531-538.
- Gage, N.L., & Berliner, D. (1984). *Educational Psychology. Second Edition*, Chicago: Rand Mc. Nally.
- Gagne, R.M. (1963). The Learning Requirements for Enquiry. *Journal of Research in Science Teaching*, 1 (2), pp. 144-153.

- Gilakjani, A. P. (2012). Visual, Auditory, Kinaesthetic Learning Styles and Their Impacts on English Language Teaching. *Journal of Studies in Education*, 2 (1).
- Güneú, H., et al. (2011). The using of computer for elimination of misconceptions about Photosynthesis. *Procedia Social and Behavioral Sciences*, 15. Pp. 1130–1134.
- Hake, R. (1998). Interactive-engagement versus traditional methods : a six-thousand-student survey of mechanics test data for introductory physics courses. *Journal of Phys*, 66 (1), 64-67.
- Haladyna, T. M. (1997). *Writing Test Item to Evaluate Higher Order Thinking*. Boston: Allyn and Bacon.
- Hamad, S. E. (2015). *Assessment of scientific Graphical literacy of 10^h grade students in AL-Ain Educational Office*. (Theses). United Arab Emirates. Paper 204.
- Hamalik. (2001). *Proses Belajar Mengajar*. Jakarta : Bumi Aksara.
- Hapsari, S. (2015). *Psikologi Pendidikan*. Jakarta : PT. Remaja Rosdakarya.
- Hasibuan dan Moedjiono. (2002). *Proses Belajar Mengajar*. Bandung : PT. Remaja Rosdakarya.
- Haslam, F., dan Treagust, D.F. (1987). Diagnosing secondary students' misconception of photosynthesis and respiration in plants using a two-tier multiple choice instrument. *Journal of biological education*. 21 (3), 203-21-.
- Hazel, E., dan Prosser, M. (1994). First-Year University Students' Understanding of Photosynthesis, Their Study Strategies & Learning Context. *Journal of The American Biology Teacher*, 56 (5), 274-279.
- Heong., et al. (2011). The Level of Marzano Higher-Order Thinking Skills among Technical Education Students. *International Journal of Social Science and Humanity*, 1(2).
- Hofstein, A. & Lunetta, V. (2003). *The laboratory in Science Education: Foundations for the twenty-first Century*. Wiley Periodicals, Inc.
- Hofstein, A., & Lunetta, V. N. (2004). The laboratory in science education: Foundation for the 21st century. *Journal of Science Education*, 88, 28–54.
- Hofstein, A., dan Mamlok-Naaman, R. (2007). The Laboratory in Science Education : the State of the Art. *Journal of Chemistry Education Research and Practice*, 8 (2), 105-107.

- IEA. (2011). *PIRLS 2011 Internatinal database*. Boston Collage. [Online]. Diakses dari <https://timss.bc.edu/pirls2011/international-database.html>.
- IEA. (2015). *TIMSS 2015 International Results in Science*. Boston Collage. [Online]. Diakses dari <http://timssandpirls.bc.edu/timss2015/international-results/timss-2015/science/student-achievement/>.
- Ihwan, M. B. (2008). *Penerapan Metode Demonstrasi Dalam Kegiatan Lesson Study Untuk Meningkatkan Aktivitas dan Penguasaan Konsep Kalor Pada Siswa Kelas VII a MTsN Sewulan Madiun*. (Skripsi). Universitas Negeri Sunan Kalijaga, Yogyakarta.
- Jennison, B. M., dan Reiss, M. J. (1991). Does Anyone Know What Energy Is?. *Journal of Biological Education*, 25 (3), 173- 174.
- Johnstone, A. H. and Mahmoud, N. A. (1980). Isolating Topics of High Perceived Difficulty in School Biology. *Journal of Biological Education*. 14(2), 163 - 166.
- Johnstone, A.H., dan Al-Shuaili, A. (2001). Learning in the laboratory: Some thoughts from the literature. *Journal of U-Chemistry*. Ed. 5, hlm. 42-51.
- Kamus besar bahasa indonesia (KBBII). (2012). [Online]. Diakses dari: <http://kbbi.web.id>.
- Kemendikbud. 2011. *Survei Internasional PISA*. [Online]. Diakses dari : <http://litbang.kemdikbud.go.id/index.php/surveiinternasional-pisa/tentang-pisa>.
- King, J.G. (2001). Observation, Eksperiment, and the future of physics. *Journal of Physics*. 69 (1), 11-25.
- Kusumawati, N. (2013). Penerapan Metode Demonstrasi Dalam Upaya Meningkatkan Pemahaman Konsep Terhadap Operasi Perkalian Bilangan Melalui Media Benda Kongkrit Siswa Kelas Iv Sd Negeri Slawi Kulon 06 Kabupaten Tegal. *δELTA*, Vol. 1, No. 2.
- Kutschera, U. (2015). Basic versus applied research: Julius Sachs(1832–1897) and the experimental physiology of plants. *Journal of Plant Signaling & Behavior*, 10: 9.
- Lagowski, J.J. (2002). *The Role of the laboratory in chemical education*. [Online]. Diakses dari : <http://www.utexas.edu/research>.
- Lawson, A. E. (1995). *Science Teaching and the development of Thinking*. Belmont, Calif: Wadsworth.

- Lawson, A.E., & Renner, J.W. (1973). Piagetian theory and instruction in physics. *Journal of The physic teacher, 11* (3), 165-169.
- Lawson, A.E., & Thompson, L.D. (1988). Formal Reasoning Ability and misconceptions Concerning Genetics and Natural Selection. *Journal of Research in Science Teaching, 25* (9), 733-746.
- Lazarowitz, R. & Penso, S. (1992). High school students' difficulties in learning biology concepts. *Journal of Biology Education, 26* (3):215-224.
- Lewis, R.G., & Smith, D.H. (1994). *Total Quality in Higher Education*. Florida: St.Lucie Press.
- Lubezki, A.,et al. (2004). HOCS Promoting Assessment of Students' Performance on Environment Related Undergraduate Chemistry. *Journal of Chemistry Education Research and Practice, 5*(2), 175-184.
- Lumuan, H. H. (2010). *Penerapan Metode Presentasi Dan Diskusi Untuk Meningkatkan Minat Dan Hasil Belajar Fisika Siswa Kelas Xii Ipa3 Sma Negeri 1 Banggai*. (Tesis).
- King, G. R. (2000). *Higher Order Thinking Skills*. Assessment Evaluation Educational Services Program. [Online]. Diakses dari: <http://www.cala.fsu.edu>.
- King, FJ., Ludwika Godson dan Faranak Rohani. 2011. *Higher Order Thinking Skills*. Center for Advancement of Learning and Assessment. [Online]. (http://www.cala.fsu.edu/files/higher_order_thinking_skills.pdf)
- Koç, Y., et al. (2016). Effect of Jigsaw II, reading-writing-presentation, and computer animations on the teaching of "Light" Unit. *Academic Journal : Education research and Reviews, 11* (20).
- Köse, S. (2008). Diagnosing student misconceptions: Using drawings as a research method. *World Applied Sciences Journal, 3*(2), 283-293.
- Köse, S. dan Uşak, M. (2006). Determination of prospective science teachers' misconceptions: Photosynthesis and respiration in plants. *International Journal of Environmental and Science Education, 1*(1), 25 – 52.
- Magiels, G. (2007). Dr Jan Ingenhousz, or why don't we know who discovered photosynthesis?. *1st Conference of the European Philosophy of Science Education*. Madrid. 15-17 November 2007.
- Marmaroti, P., dan Galanopoulou, D. (2006). Pupils' understanding of photosynthesis: A questionnaire for the simultaneous assessment of all aspects. *International Journal of Science Education, 28*(4), 383-403.

- Marzano, R.J., et al. (1994). *Assessing student outcomes: performance assessment using the dimensions of learning model*. Pittsburgh: ASCD.
- Maun, M. A., dan Winnitoy, T. (1980). Demonstration—an effective technique in teaching biology. *Journal of Agronomic Education*, 80-84.
- McCabe, J. A. (2013). *Learning and Memory Strategy Demonstrations for the Psychology Classroom*. Baltimore: Department of Psychology of Goucher College.
- McKee, E., Williamson, V.M., dan Ruebush. 2007. Effects of a Demonstration Laboratory on Student Learning. *Journal of Science Education and Technology*, 16(5), pp 395–400.
- McLaughlin, M. W., dan Talbert, J. E. (2001). *Professional communities and the work of high school teaching*. Chicago: University of Chicago Press.
- Meisadewi, N. (2016). *Pengembangan kegiatan praktikum berbasis kuantitatif untuk meningkatkan graphing skills siswa kelas x pada materi perubahan lingkungan*. (Tesis). Universitas pendidikan Indonesia, Bandung.
- Meltzer, D. E. (2002). The Relationship between Mathematics Preparation and Conceptual Learning Grains in Physics: A Possible “Hidden Variable” in Diagnostic Pretest Scores. *American Journal Physics*, Vol 70 (12), 27 halaman.
- Millar, R., et al (2004). *The role of practical work in the teaching and learning of science*. Washington, DC : National Academi of Science.
- Millar, R dan Abrahams, I. (2009). Practical work: making it more effective. *SSR* 91 (334).
- Miller, R. (2004). *The role of practical work in the teaching and learning of science*. Washington DC: National Academy of Science.
- Moleong, L.J. 2011. *Metodologi penelitian kualitatif edisi revisi*. Bandung : PT. Remaja Rosda karya.
- Morgil, I. dan Yoruk, N. (2006). Cross-Age Study of The Understanding Some Concepts In Chemistry Subjects In Science Curriculum. *Journal of Turkish Science Education*. 3 (1), 15 – 27.
- Mullis, I. V. S dan Martin, M. O. (2016). *PIRLS 2016 Data Collected, Reporting Underway : 57th IEA General Assembly*. Oslo : Boston College.
- Munandar, S.C.U. (2009). *Pengembangan Kreativitas Anak Berbakat*. Jakarta: Rineka Cipta.

- Muwange, J. W.F dan Zake. (2005). Is science education in a crisis? some of the problems in south africa. *Journal of the Southern African Association for research in Mathematics, Science and Technology Education*, 4 (1), pp. 1-11.
- Newby, T. J. Stepich, D. A., Lechman, J. D., dan Russel J. D. (1996). Introduction to Instructional Technology, Instructional Technology for Teaching and Learning. *Journal of Educational Technology Publications*. Pp 48.
- Nicklos, G. (2006). *Kekurangan pengetahuan dan miskonsepsi dalam mekanisme fotosintesis di kalangan pelajar sains (biologi) tahun 2*. Malaysia :Tanjong Malim Fakulti Sains dan Teknologi Universiti Pendidikan Sultan Idris.
- Norris, S. P. and Ennis, R. H. (1989). *Evaluating critical thinking*. Pacific Grove, CA: Midwest Publications.
- Novak, J.D. & Gowin, D.B. (1985). *Learning How To Learn*. Cambridge : Cambridge University Press.
- OECD. (2015). *Pisa Achievement 2015*. [Online]. Diakses dari www.pisa.oecd.org.
- Olatoye, R.A., dan Adekoya, Y.M. Effect of Project-Based, Demonstration and Lecture Teaching Strategies on Senior Secondary Students' Achievement in an Aspect of Agricultural Science. *International Journal of Educational Research and Technology*, 1(1): 19 – 29.
- Orbanić, N.D., dan Battelli, C. (2011). *Misconceptions in science*. In: M. Cotič, V. Medved Udovič, & S. Starc (Eds). Developing various literacy (pp. 275-282). Koper: University of Primorska, Annales.
- Orbanić, N. D., Darja, S. D., Majda, C. (2016). The Effectiveness Of A Constructivist Teaching Model On Students' Understanding Of Photosynthesis. *Journal of Baltic Science Education*, 15 (5).
- Özay, E. & Öztas, H. (2003). Secondary students' interpretations of photosynthesis and plant nutrition. *Journal of Biological Education*, 37, 68-70.
- Özder, H., et al. (2014). An Evaluation of the Practicum Course of Pre-School Teacher Education Program in North Cyprus. *Mersin University Journal of the Faculty of Education*, 10 (2), pp.1-13.
- Pamungkas, T. (2014). *Penerapan Metode Demonstrasi Untuk Meningkatkan Pemahaman Konsep Energi Bunyi Pada Materi Pelajaran IPA*. (Skripsi). Universitas Pendidikan Indonesia, Bandung.

Peraturan Menteri Pendidikan dan Kebudayaan (Permendikbud) Republik Indonesia. 2013. *Standar Penilaian Pendidikan*. [Online]. Diakses dari: <http://pmp.dikdasmen.kemdikbud.go.id/files/peraturan/permenn/04bsalinan-lampiran-permendikbud-no-66-th-2013-tentang-standarpenilaian.pdf>.

Peraturan Menteri Pendidikan dan Kebudayaan (Permendikbud) Republik Indonesia. 2015. *Penilaian Hasil Belajar Oleh Pendidik Dan Satuan Pendidikan Pada Pendidikan Dasar Dan Pendidikan Menengah*. [online] :<http://purnawanto.blogspot.co.id/2016/01/permendikbud-nomor-53-tahun-2015.html>.

Percival dan Ellington. (1998). *Teknologi Pendidikan*. Jakarta : Erlangga.

Piaget, J. (1964). Cognitive Development in Children: Development in Learning. *Journal of Research in Science Teaching*, Vol. 2, 176-186.

Posner, G. J., et al. (1982). Accommodation of a scientific conception: Toward a theory of conceptual change. *Journal of Science Education* 66: 211–227.

Pranayoga, B. N. (2013). *Implementasi metode diskusi dan presentasi dalam upaya meningkatkan partisipasi aktif siswa pada mata pelajaran kopling kelas xi SMK Muhammadiyah 4 Klaten Tengah*. (Skripsi). Yogyakarta: Universitas Negeri Yogyakarta.

Price, D. S., & Brooks, D. W. (2012). Extensiveness and perceptions of lecture demonstrations in the high school chemistry classroom. *Journal of Chemical Education Research and Practice*, 13, 420-427.

Purbowati, L.W. (2016). *Perbedaan pembelajaran jigsaw dan diskusi presentasi terhadap hasil belajar Ipa pada siswa SMP Muhammadiyah 4 Surakarta*. (Skripsi). Universitas Muhammadiyah Surakarta, Surakarta.

Purwningsih. (2012). *Pengaruh Metode Demonstrasi terhadap hasil belajar IPA siswa kelas IV SD N 1 Sumberwulan kabupaten Wonosobo tahun ajaran 2011/2012*. (Skripsi). Universitas Kristen Satya Wacana, Salatiga.

Purtadi, S. dan Sari, Rr. L. P. (2009). Analisis Miskonsepsi Konsep Laju dan Kesetimbangan Kimia pada Siswa SMA. *Makalah Seminar Nasional MIPA*, Yogyakarta.

Ramli, M., et al. (2017). *Process of Argumentation in High School Biology Class: A Qualitative Analysis*. *IOP Conf. Series: Journal of Physics: Conf. Series* 812 (2017) 012007.

Resti, S. (2013). *Penerapan Pembelajaran Berbasis Praktikum Untuk Meningkatkan Penguasaan Konsep dan Keterampilan Proses Sains Siswa SMP Pada Subkonsep Difusi Osmosis*. (Skripsi). Universitas Pendidikan Indonesia, Bandung.

Khalida Ulfa, 2017

PENERAPAN STRATEGI PEMBELAJARAN PPDP UNTUK MENINGKATKAN PENGUASAAN KONSEP DAN KEMAMPUAN BERFIKIR TINGKAT TINGGI SISWA SMA PADA MATERI FOTOSINTESIS
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- Rofiah, E., et al. (2013). Penyusunan Instrumen Tes Kemampuan Berpikir Tingkat Tinggi Fisika Pada Siswa SMP. *Jurnal Pendidikan Fisika*, 1 (2): 17-22.
- Rustaman, N.Y. (1995). Peranan Praktikum Dalam Pembelajaran Biologi. (Makalah). *Disampaikan pada pelatihan bagi teknisi dan laboran perguruan tinggi Kerjasama FPMIPA IKIP Bandung dengan direktorat Jenderal pendidikan Tinggi*. Bandung : FPMIPA IKIP.
- Rustaman, N.Y., Dirdjosoemarto, S., Ahmad, Y., Yudianto, S.a., Rochintaniawati, D., Nurjhani, K.M., dan subekti, R. (2005). *Strategi belajar mengajar biologi*. Bandung: jurusan pendidikan biologi FPMIPA UPI.
- Rustaman, N.Y. (2005). *Perkembangan Penelitian Pembelajaran Berbasis Inkuiiri dalam Pendidikan Sains*. (Makalah). Dipresentasikan dalam Seminar Nasional II Himpunana Ikatan Sarjana dan Pemerhati Pendidikan Indonesia Bekerjasama dengan FPMIPA Universitas Pendidikan Indonesia. Universitas Pendidikan Indonesia, Bandung.
- Rustaman, N.Y. (2003). *Penilaian Hasil Belajar Ipa*. [Online]. Diakses dari: http://file.upi.edu/direktori/FPMIPA/JUR_PEND_BIOLOGI\195012311979032-Nuryani_Rustaman/pendidikan hasil belajar IPA.pdf.
- Rustaman, Nuryani. (2013). *Peranan Praktikum Dalam Pembelajaran Biologi*. http://file.upi.edu/Direktori/SPS/PRODI.PENDIDIKAN_IPA/195012311979032NURYANI_RUSTAMAN/PERANAN_PRAKTIKUM_DALAM_PEMBELAJARAN_BIOLOGI.pdf.
- Sadler, T. D., dan Fowler,S. R. (2006). A threshold model of content knowledge transfer for socioscientific argumentation. *Journal of Science Education*, 90 (1), 986-1004.
- Sagala, S. (2010). *Konsep dan Makna Pembelajaran*. Bandung : Alfabeta.
- Sanjaya, W. (2007). *Strategi Pembelajaran Berorientasi Standar Proses Pendidikan*. Jakarta: Kencana Prenada Media Group.
- Semiawan, Conny., et al. 1990. *Pendekatan Keterampilan Proses “Bagaimana Mengaktifkan Siswa dalam Belajar?”*. Jakarta: PT.Gramedia.
- Seymour, J., and Longden, B. (1991). Respiration—that’s breathing isn’t it?. *Journal of Biological Education* 23: 77–184.
- Shumow, L., et al. (2013). *Multiple Perspectives on Student Learning, Engagement, and Motivation in High School Biology Labs*. North Carolina : The University of North Carolina Press.
- Syah, M. (2003). *Psikologi Belajar*. Jakarta : Raja Grafindo Persada.

- Syahida, A., dan Irwandi, D. (2015). Analisis Keterampilan Berpikir Tingkat Tinggi Pada Soal Ujian Nasional Kimia. *Journal of Edusains*, 7 (1), hlm. 77-87.
- Subiantoro, A. W. (2010). *Pentingnya praktikum dalam pembelajaran Ipa* (Makalah). Yogyakarta: Universitas Negeri Yogyakarta.
- Sudijono, A. (2008). *Pengantar Evaluasi Pendidikan*. Jakarta: Raja Grafindo Persada.
- Sudjana, N. (2005). *Penilaian Hasil Proses Belajar Mengajar*. Bandung: PT. Remaja Rosdakarya.
- Sumiati & Asra. (2009). *Metode Pembelajaran*. Bandung: CV Wacana Prima.
- Suparno, P. (2007). *Metodologi Pembelajaran Fisika Konstruktivistik & Menyenangkan*. Yogyakarta: Universitas Sanata Darma.
- Supriatno, B. (2013). *Pengembangan Program Perkuliahan Pengembangan Praktikum Biologi Sekolah Berbasis Ancorb Untuk Mengembangkan Kemampuan Merancang Dan Mengembangkan Desain Kegiatan Laboratorium*. (Disertasi). Sekolah pascasarjana Universitas pendidikan Indonesia, Bandung.
- Susanti, R. (2009). Pengetahuan awal tentang konsep fotosintesis : Kajian deskriptif pada siswa Sekolah Dasar (SD). *Proseding Seminar Nasional Biologi : Inovasi Biologi dan pendidikan Biologi dalam Pengembangan Sumber Daya Manusia*, hal : 112-121.
- Susanti, R. (2011). *Pengembangan program pembelajaran fisiologi tumbuhan berbasis masalah untuk meningkatkan kemampuan generik sains calon guru biologi*. (Disertasi). Sekolah pasacasarjana Universitas pendidikan Indonesia, Bandung.
- Stavy, R., Eisen, Y., dan Yaakobi, D. (1987). How students aged 13-15 understand photosynthesis. *International Journal of Science Education*, 9(1), 105-115.
- Storey, R. D. (1989). *Textbook Errors & Misconceptions in Biology: Photosynthesis*. *Journal of The American Biology Teacher*, 51 (5) : 271-274.
- Taiz, L., dan Zeiger, E. (2002). *Plant Physiology Third Edition*. Sunderland.Sinauer Associates, Inc.
- Taylor, P.E & Steel, S. (1996). *Program Development and Evaluation, Collecting Evaluation Data: Direct Observation*. University Of Wisconsin Extension.

- Tekkaya, C., et al. (2001). Biology Concepts Perceived As Difficult By Turkish High School Students. *Hacettepe Üniversitesi Eğitim Fakültesi Dergisi*, 21 : 145-150.
- Tekkaya, C. (2002). Misconceptions as barrier to understanding biology. *Journal of Hacettepe University Education Faculty*, 23: 259-266.
- Tiberghien, A. (2000). *Designing teaching situations in the secondary school*. Franch : Université Lyon.
- The Partnership for 21st Century Learning. (2015). *P21 Framework Definitions*. United State of America. [Online]. Diakses dari www.p21.org.
- Thomas, A. dan Thorne, G., (2009). How to increase Higher Order Thinking Centre for Development and Learning. [online]. Diakses dari : <http://www.cdl.org/articles/how-to-increase-high-orderthinking/>.
- Terashima, I., dan Toshiro, S. (1985). A New Model for Leaf Photosynthesis Incorporating the Gradients of Light Environment and of Photosynthetic Properties of Chloroplast within a Leaf. *Oxford Journals : Annals of Botany Company*, 56 : (489-499).
- Tsapartis, G., and Zoller, U. (2003). Evaluation of higher vs lower order cognitive skills-type examination in chemistry. Implication for university in-class assessment and examination. *Journal of chemistry education*. 7, 50-57.
- UNESCO. (1972). *Growth and change : Perspective of Education in Asia*. Paris.
- Vygotsky. L. (1978). *Interaction between learning and Development, From : Mind and Society*. (pp. 79-91). Cambridge, MA : Harvad University Press.
- Waldrop, M. M. (2013). *The Virtual Lab : Confronted with the explosive popularity of online learning, researchers are seeking new ways to teach the practical skills of science*. Macmillan Publishers Limited.
- Wanderse, J. H. (1983) Students' Misconceptions About Photosynthesis: A Crossage Study. *Proceedings of the International Seminar on Misconceptions in Science and Mathematics*. Ithaka, NY: Cornell University, 441-466.
- Wichaidit, S., et al. (2011). Using analogy and model to enhance conceptual change in Thai middle school students. *US-China Education Review*, 8, 333–338.
- Widodo, A. dan Ramdaningsih, V. (2006). *Analisis Kegiatan Praktikum Dengan Menggunakan Video*. Metalogika, 9(2), 146-158.

- Wijaya, A.P. (2013). *Pengaruh metode presentasi diskusi dengan media powerpoint dan gaya belajar terhadap hasil belajar mata kuliah teori akuntansi pada mahasiswa Program Studi Pendidikan Ekonomi Akuntansi di FKIP.* (Tesis). Universitas Negeri Malang, Malang.
- Wilson, L.O. (2016). A succinct discussion of the revisions to Bloom's classic cognitive taxonomy by Lorin Anderson and David Krathwohl and how to use them effectively. [Online]. Diakses dari : <http://thesecndprinciple.com/wp-content/uploads/2014/01/Anderson-and-Krathwohl-revised-10-2016.pdf>.
- Winkel, W.S. (1991). *Psikologi Pengajaran.* Jakarta : Gramedia.
- Woolfolk, A., dan Nicolich, L. M. (2004). *Mengembangkan Kepribadian & Kecerdasan Anak-Anak.* Jakarta: Inisiasi Press.
- Woolnough, B. & Allsop, T. (1985). *Practical work in science.* London. Cambridge university press.
- Wulandari, A. S. (2012). *Pengaruh penggunaan metode demonstrasi terhadap hasil belajar IPA maetri cahaya dan sifat-sifatnya pada siswa kelas v SD Negeri Balesari Semester II tahun pelajaran 2011-2012.* (Skripsi). Universitas Kristen Satya Wacana, Salatiga.
- Yamin, Martinis dan Maisah. (2010). *Standarisasi Kinerja Guru.* Jakarta: Gaung Persada Press.
- Yenilmez, A., dan Tekkaya, C. (2006). Enhancing Students' Understanding of Photosynthesis and Respiration in Plant Through Conceptual Change Approach. *Journal of Science Education and Technology, 15* (1).
- Yulaida, D. (2016). *Pengaruh metode praktikum terhadap motivasi dan hasil belajar IPA siswa kelas iv SDN Kemiri I Puspo Pasuruan.* (Skripsi). Universitas Islam Negeri Maulana Malik Ibrahim, Malang.
- Yusuf, H. (2016). *Korelasi antara motivasi dan penguasaan konsep siswa dengan keterampilan berpikir tingkat tinggi pada kajian genetika dan evolusi.* (Tesis). Universitas Pendidikan Indonesia, Bandung.
- Zoller, U., dan David, P. (2007). Matching Higher-Order Cognitive Skills (HOCS) promotion goals with problem-based laboratorypractice ina freshman organic chemistry course. *Journal of Chemistry Education Research and Practice, 8*(2),153-171.