## DAFTAR PUSTAKA


Abubakar, S.M. (2015). *Comparative Analysis of Prospective Physics Teachers Problem-Solving Ability and Their Achievement in Physics*. ATBU, Journal of Science, Technology & Education (JOSTE); Vol. 3, No.2, April 2015.

Adegoke, B. A. (2017). *Effect of Explicit Problem Solving Instruction on Secondary School Students" Achievement in Physics*. International Journal of Scientific Research in Education, Vol.10, No.1, 2017; 87-101.

Adegoke, B. A. (2013). *A Survey of Nigerian Senior Secondary School Students' Interest in Physics*. Nigerian Journal of Clinical and Counselling Psychology, Vol.1, No.1, 2104; 1-7.

Ali, A. (2014). *The Effect of Inquiry-based Learning Method on Students' Academic Achievement in Science Course*. Universal Journal of Educational Research 2(1): 37-41, 2014. DOI: 10.13189/ujer.2014.020104.

Amri, Sofyan dan Ahmadi, Lif Khoiru. (2010). *Konstruksi Pengembangan Pembelajaran*. Jakarta : PT. Prestasi Pustakaraya.

Anderson, L.W. & Krathwohl, D.R.. (2001). *A Taxonomy for Teaching, Learning, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*. New York, NY: Longman.

Anam, Khoirul. (2016). *Pembelajaran Berbasis Inkuiri, Metode dan Aplikasi*. Yogyakarta: Pustaka Pelajar.

Anneke, V. (2011). *Tasks for Developing Experimental Competencies for Inquiry-based Learning.* University of Education Freiburg, Germany.

Arikunto, S. (2006). *Prosedur Penelitian Suatu Pendekatan Praktek.* Jakarta: Rineka Cipta.

Arikunto, S. (2012). *Dasar-Dasar Evaluasi Pendidikan.* Jakarta: Bumi Aksara.

Ashiq Hussain, Muhammad Azeem, and Azra Shakoor. (2011). *Physics Teaching Methods: Scientific Inquiry Vs Traditional Lecture*. International Journal of Humanities and Social Science Vol. 1, No. 19, December 2011.

Ayodele, O. Ogunleye. (2009). *Teachers' and Students' Perceptions of Students' Problem-Solving Difficulties in Physics: Implications for Remediation*. Journal of College Teaching & Learning, Vol.6, No.7, November 2009.

Ayşe Oğuz dan Sertaç Arabacioğlu. (2011). *Overviews On Inquiry Based And Problem Based Learning Methods*. Western Anatolia Journal of Educational Sciences (WAJES), Dokuz Eylul University Institute, Izmir, Turkey; ISSN 1308-8971.

Badan Standar Nasional Pendidikan. (2010). *Paradigma Pendidikan Nasional Di Abad-21*. Jakarta: BSNP.

Bimba, A. *et.al*. (2013). *Problem Representation for Understanding Physics Problem*. Research Notes in Information Science (RNIS). Volume 14, June 2013, DOI:10.4156/rnis.vol14.111.

Brad, Alexandru. (2011). *A Study of The Problem Solving Activity in High School Student: Strategies and Self-Regulated Learning*. Acta Didactica Napocensia. (Online), 4(1) 2011, pp 21-30.

Bybee, R., (2010). *The Teaching of Science: 21st Century Perspective*. Published by NSTA Press.

Chi, MTH, Nokes, TJ., and Schunn, CD. (2010). *Problem Solving and Human Expertise*. International Encyclopedia of Education (2010), vol. 5, pp. 265-272.

Christine, C., and David, P. (2014). *Enhancing Student Engagement in Physics Using Inquiry Oriented Learning Activities*. International Journal of Innovation in Science and Mathematics Education, 22(1), 43-56, 2014.

Chukwunenye, J. N., & Adegoke, B. A. (2014). *Catching Students" Interest in Physics Using Computer Simulated Experiments*. West African Journal of Education, XXXIV, 295-309.

Colburn, A. (2000). *An Inquiry Primer*. Science Scope, 23(6), 42-44.

Dahar, Ratna Wilis. (1989). *Teori-Teori Belajar*. Jakarta: Penerbit Erlangga.

David O' Halloran, (2001). *Task-based Learning: A Way of Promoting Transferable Skills in The Curriculum*. Journal of Vocational Education & Training, 53(1), 101-120, DOI: 10.1080/13636820100200150.

De Graaff, E., & Kolmos, A. (2007). *History of Problem-based and Project-based Learning. In E. de Graaff, & A. Kolmos (Eds.), Management of Change: Implementation of Problem-based and Project-based Learning in Engineering* (pp. 1-8). Rotterdam: Sense Publishers.

Depdiknas. (2006). *Standar Kompetensi Mata Pelajaran Fisika Sekolah Menengah Atas dan Madrasah Aliyah*. Jakarta: Depdiknas.

Djojosoediro, Wasih. (2011). *Hakikat IPA dan* Pembelajaran *IPA*. Diakses dari *http://pjjpgsd.dikti.go.id* pada tanggal 10 Desember 2015.

Ellis, R. (2009). *The Methodology of Task-Based Teaching.* Asian EFL Journal Cebu Conference Proceeding, August 2009 (6-23).

Erceg, N. (2011). *Students' Strategies for Solving Partially Specified Physics Problems*. Revista Mexicana De Fisica E 57 (1) 44–50 JUNIO 2011.

Eser Ultay (2017). *Examination of Context-Based Problem-Solving Abilities of Pre-Service Physics Teachers*. Journal of Baltic Science Education, Vol. 16, No. 1, 2017; 113-122.

Florian, S-B., Martin, H., Rita, W., and Karsten R. (2013). *Inquiring Scaffolds in Laboratory Tasks: An Instance of A "Worked Laboratory Guide Effect"?*. Eur J Psychol Educ (2013) 28:1381–1395. DOI 10.1007/s10212-013-0171-8.

Fraenkel, J.R. *et.al*. (2012). *How To Design and Evaluate Research in Education*. Eighth Edition. New York: McGraw Hill.

Frost, R. (2004). *A Task-based Approach*. British Council, Turkey. Diakses dari: http://www.teachingenglish.org.uk/articles/a-task-based-approach, tanggal 12 Desember 2016.

Furqon (2009). *Statistika Terapan untuk Penelitian*. Bandung: Alfabeta.

Gamze Sezgin Selçuk, Serap Çaliskan, & Mustafa, E. (2010). *Instruction of Problem Solving Strategies: Effects on Physics Achievement and Self-Efficacy Beliefs*. Journal of Baltic Science Education, Vol. 9, No. 1, 2010.

Gök, T. & Sılay, İ. (2010). *The Effects of Problem Solving Strategies on Students' Achievement, Attitude and Motivation*. Lat. Am. J. Phys. Educ. Vol. 4, No. 1, January 2010.

Hake, R.R. (1999). *Analizing Change/Gain Scores.* [Online]. Tersedia pada: http://www.physics.indiana.edu/~sdi/AnalyzingChange-Gain.pdf.

Halim, *et.al.* (2016). *An Analysis of Students' Skill in Applying The Problem Solving Strategy to The Physics Problem Settlement in Facing AEC as Global Competition*. Jurnal Pendidikan IPA Indonesia, Vol. 5, No.1, 2016; 1-5. http://journal.unnes.ac.id/index.php/jpii.

Halliday, D. dan Resnick, R. (2008). *Fundamental of Physics*. 8*th Edition*, John Wiley and Sons, Inc.

Hamalik, Oemar. (2012). *Pendekatan Baru Strategi Belajar Mengajar Berdasarkan CBSA*. Bandung: Sinar Baru Algesindo Offset.

Heller, P., Keith. R., & Anderson, S. (1992). *Teaching Problem Solving Through Cooperative Grouping. Part 1: Group Versus Individual Problem Solving*. American Journal of Physics. Vol. 60, No. 7, 1992.

Heller, P and K. Heller (1999). *Problem-Solving Labs, in Cooperative Group Problem Solving in Physics, Research Report.* University of Minnesota.

Herman, R. B. (2016). *Filosofi PBL dan Strategi Pembelajaran*, Diakses dari: *http://repository.unand.ac.id/3497/1/Filosofi_PBL_%26_Strategi_Pembelajaran_%5BCompatibility_Mode%5D.pdf.*

Hiremath, C.N. (2015). *Let Your Succes be BIIG: A New Paradigm for Problem-solving in Science.* International Journal of Physics, Vol. 3, No.3, 113-119.

Ikhwanuddin, Jaedun. A. and Purwantoro, D. (2010). *Problem Solving dalam Pembelajaran Fisika untuk Meningkatkan Kemampuan Mahasiswa Berpikir Analiti*s. Jurnal Kependidikan, Vol. 40, No. 2, 2010, 215-230.

Irmina, dkk (2016). *Eksplorasi Kemampuan Pemecahan Masalah Siswa Fisika pada Materi Fluida Statis.* Pros. Semnas Pend. IPA Pascasarjana UM, Vol.1, 2016.

Jayeeta, B. (2015). *Constructivist Approach to Learning–An Effective Approach of Teaching Learning.* International Research Journal of Interdisciplinary & Multidisciplinary Studies (IRJIMS). Volume-I, Issue VI, July 2015, Page No. 65-74.

John, W McBride., IB. Muhammad, AH. Mohammad, and Martin F. (2004). *Using An Inquiry Approach to Teach Science to Secondary School Science Teachers*. www.iop.org/journals/physed, diakses Desember 2016.

Johnson, N. (2012). *Teacher's and Student's Perceptions of Problem Solving Difficulties in Physics*. International Multidisciplinary e-Journal, Volume-I, Issue-V, May-2012.

Jost, N. (2003). *Issues in Task-based Language Instruction*. JALT Conference Proceedings. Tokyo; Association for Language Teaching.

Kodjo, D. Taale. (2011). *Improving Physics Problem Solving Skills of Students of Somanya Senior High Secondary Technical School in the Yilo Krobo District of Eastern Region of Ghana*. Journal of Education and Practice, Vol. 2, No. 6, 2011.

Kristina Zuza, *et.al*. (2016). *Exercises Are Problems Too: Implications for Teaching Problem-Solving in Introductory Physics Courses*. Eur. J. Phys. 37 (2016) 055703 (8pp) doi:10.1088/0143-0807/37/5/055703.

Krulik S., & Rudnick J.A. (1996). *The New Source for Teaching Reasoning and Problem Solving in Junior and Senior High School*. Boston: Allyn and Bacon.

Li, Y., Huang, Z., Jiang, M., & Chang, T. W. (2016). *The Effect on Pupils' Science Performance and Problem-Solving Ability through Lego: An Engineering Design-based Modeling Approach.* Educational Technology & Society, Vol.19, No.3 (2016); 143–156.

McDermott, L. C. (1991). *Millikan Lecture 1990: What We Teach and What is Learned Closing The Gap*. American Journal of Physics. Vol.59, 301–315 (1991).

Meera Patel (2014). *Higher-order Skills in Critical and Creative Thinking. Quality Enhancement Plan.* NC State University.

Meltzer, D.E. (2002). "*The Relationship between Mathematics Preparation and Conceptual Learning Gains in Physics: A Possible "Hidden Variable" in Diagnostic Pretest Scores*". American Journal of Physics. Vol. 70, No. 2, 2002; 1259-1268.

Morka, *et. al*. (2014). *From Problem Solving Strategies to Knowledge Structure, Its Implications on Student's Attitude and Motivation.* Agbor Journal of Science and Science Education, Vol.5, No.1, 2014; 34-45.

Mushtaq, AM., *et.al*. (2010). *Effect of Problem Solving Teaching Strategy on 8th Grade Students' Attitude towards Science*. Journal of Education and Practice, Vol.1, No. 3, 2010; 16-27.

M. Tawil dan Liliasari (2013). *Berpikir Kompleks dan Implementasinya dalam Pembelajaran IPA.* Makassar: Badan Penerbit UNM.

Ogunleye. A. O. (2009). *Teacher and Student Perception of Student Problem Solving Difficulties in Physics: Implication for Remidion.* Journal of College Teaching & Learning (Online), Vol. 6, No. 2, 2009; 85-90.

Olaniyan, *et.al*. (2015). *Effect of Polya Problem Solving on Senior Secondary School Students' Performance in Current Electricity*. European Journal of Science and Mathematics Education, Vol.5, No.1, 2015; 97-104.

Olaniyan, *et.al*. (2015). *Effect of A Target-task Problem Solving Model on Senior Secondary School Students' Performance in Physics*. Journal of Science Education International, Vol.25, Issue 4, 522-538.

Omiwale, J.B. (2011). *Relationship between Problem-Solving Ability and Achievement in Physics among Senior Secondary School Students in Osun State, Nigeria*. Journal of the African Educational Research Network, Vol. 11, No. 1, June 2011.

Oxford Dictionary (Online), http://www.oxfordlearnersdictionaries.com, diakses Desember 2016.

Peraturan Pemerintah No. 32 Tahun 2013 *Tentang Perubahan Atas Peraturan Pemerintah No. 19 Tahun 2005 Tentang Standar Nasional Pendidikan.*

Permendikbud No. 22 Tahun 2016 *Tentang Standar Proses Pendidikan Dasar dan Menengah*.

Reif, F., Larkin, J. H., & Brackett, G. C. (1976). *Teaching General Learning and Problem-Solving Skills*, American Journal of Physics Vol.44, 212-217.

Rismatul Azizah, Lia Yuliati, dan Eny Latifah (2015). *The Physics Problem Solving Difficulties on High School Student*. Jurnal Penelitian Fisika dan Aplikasinya (JPFA) Vol 5, No 2, Desember 2015 p-ISSN: 2087-9946.

Rojas, S. (2012). *Enhancing The Process of Teaching and Learning Physics via Dynamic Problem Solving Strategies: A proposal.* Revista Mexicana de F´ısica E 58 (2012) 7–17 JUNIO 2012.

Ruhizan M. Yasin, Lilia Halim, and Azaman Ishar. (2012). *Effects of Problem-solving Strategies in The Teaching and Learning of Engineering Drawing Subject*. Asian Social Science, Vol. 8, No. 16; 2012.

Sagala, Syaiful. (2005). *Konsep dan Makna Pembelajaran.* Bandung: Alfabeta.

Saminathan, B. (2017). *Developing Problem Solving Ability in Physics Through Information Processing Approach.* International Journal of Informative & Futuristic Research (IJIFR), Vol. 4, Issue 5, January 2017, Continuous 4st Edition, Page No: 6222-6230.

Sandoval, W. A., & Reiser, B. J. (2004). *Explanation-driven Inquiry: Integrating Conceptual and Epistemic Scaffolds for Scientific Inquiry*. Science Education, Vol. 88, No. 3, 2004; 342-375.

Sanjaya, W. (2011). *Strategi Pembelajaran Berorientasi Standar Proses Pendidikan*. Jakarta: Kencana.

Serap, *et. al*. (2010). *Instruction of problem solving strategies: "Effects on physics achievement and self-efficacy beliefs".* Journal of Baltic Science Education, Vol.9, No.1, 2010; 20-34.

Serap, *et. al*. (2010). *Effects of the Problem Solving Strategies Instruction on the Students'Physics Problem Solving Performances and Strategy Usage*. Procedia Social and Behavioral Sciences 2 (2010) 2239–2243.

Sitiatava, Rizema Putra. (2013). *Desain Belajar Mengajar Kreatif Berbasis Sains*. Yogyakarta: Diva Press.

Siti Nursaila Bt Alias and Faridah Bt Ibrahim (2015). *Problem Solving Strategy in Balanced Forces*. International Journal of Business and Social Science Vol. 6, No. 8(1); August 2015 pp: 94-98.

S.K. Kamble and B.L. Tembe. (2012). *The effect of Use of Concept Maps on Problem Solving Performance and Attitude in Mechanical Engineering Course*. Procedia-Social and Behavioral Sciences, 83 (2013); 748-754.

Stanislav Avsec & Slavko Kocijancic (2014). *The Effect of The Use of An Inquiry-based Approach in An Open Learning Middle School Hydraulic Turbine Optimisation Course*. World Transactions on Engineering and Technology Education, Vol.12, No.3, 2014.

Sugiyono. (2010). *Statistika untuk Penelitian.* Bandung: CV Alfabeta.

Sugiyono. (2014). *Metode Penelitian Kuantitatif, Kualitatif dan R&D. Bandung*: CV Alfabeta.

Sukoriyanto. (2001). *Langkah-langkah Dalam Pengajaran Menggunakan Penyelesaian Masalah*. Jurnal PMIPA. Volume 7, Nomor 2.

Sukardiyono. (2012). *Pengembangan Instrumen Asesmen untuk Mengukur Penguasaan Konsep Fisika pada Mata Kuliah Fisika Dasar Mahasiswa Program Studi Pendidikan Biologi dan Pendidikan Kimia*. Disertasi Doktor pada SPs UPI. Bandung: Tidak Diterbitkan.

Suminten, Nyai. (2015). *Penerapan Strategi Pembelajaran Relating-Experiencing-Applying-Cooperating-Transferring (REACT) Menggunakan Pendekatan Inkuiri Untuk Meningkatkan Penguasaan Konsep Dan Kemampuan Pemecahan Masalah Fisika Siswa*. Tesis, SPs UPI. Bandung: Tidak Diterbitkan.

Sund & Trowbridge (1973). *Teaching Science by Inquiry in The Secondary School*. Ohio: Charles E. Merrill Publishing Company.

Sunday, A. Adeyemo (2010). *Students' Ability Level and Their Competence in Problem-Solving Task in Physics*. International Journal of Educational Research and Technology, Vol 1 [2] December 2010: 35 – 47.

S. Anandaraj dan C. Ramesh (2014). *A Study on the Relationship between Metacognition and Problem Solving Ability of Physics Major Students*. Indian Journal Of Applied Research. Vol.4, Issue 5, May 2014.

Treagust, D.F., Duit, R. & Fraser, B.J. (1996). *Teaching and learning of Science and Mathematics*. New York: Teachers College Press.

Trna, J., *et.al*. (2009). *Physics Learning Task for Students with Special Educational Needs: disabled and gifted.* Masaryk University, Faculty of Education, Brno, Czech Republic.

*The Partnership for 21st Century Skills, Framework for 21st Century Learning*, http://www.p21.org/overview/skills-framework. Diakses Maret 2016.

Trilling, Bernie, and Charles Fadel. (2009). *21st Century Skills: Learning for Life of Our Times*, Josey-Bass, San Francisco.

Trowbridge & Bybee. (1990). *Becoming A Secondary School Science Teacher*. Ohio: Merrill Publishing Company.

Vijaya, M and Buncha, P. (2017). *Students Problem-Solving Difficulties and Implications in Physics: An Empirical Study on Influencing Factors*. Journal of Education and Practice, Vol.8, No.14, 2017. ISSN 2222-1735 (Paper) ISSN 2222-288X (Online).

Walsh L., N. Howard R.G., and Bowe. B (2007). *Phenomenography Study of Students' Problem Solving Approach in Physics*. Physics Education Research. (Online). Vol. 3, No. 2 (2007): 1-12.

Wenning, C. J. (2005). *Levels of inquiry: Hierarchies of Pedagogical Practices and Inquiry Processes*. Journal of Physics Teacher Education Online. Vol.2, No.3, 2005; 3-12.

Wenning, C. J. (2010). *Levels of Inquiry: Using Inquiry Spectrum Learning Sequences to Teach Science*. Journal of Physics Teacher Education Online, Vol. 5, No. 3, 2010; 11-20.

Wenning, C. J. (2011). *The Levels of Inquiry Model of Science Teaching*. Journal of Physics Teacher Education Online, Vol. 6, No. 2, 2011; 9-16.

Willis, J. (1996). *A Framework for Task-based Learning.* Essex: Addison Wesley Longman.

Winatapura. (1993). *Strategi Belajar Mengajar IPA*. Jakarta: Universitas Terbuka. Depdikbud, Jakarta.

Wibowo, F.C. (2012). *Penerapan Model Pembelajaran Fisika Berbasis Proyek Untuk Meningkatkan Hasil Belajar Kognitif dan Keterampilan Berpikir Kreatif*. Tesis, SPs UPI. Bandung: Tidak Diterbitkan.

Young, H. D. dan Freedman, R. A. (2012). *Sears and Zemansky's University Physics with Modern Physics 13th Edition*. Pearson Education Inc., San Fransisco.

Zeliha, *et.al*. (2014). *The Reflection of Critical Thinking Dispositions on Operational Chemistry and Physics Problems Solving of Engineering Faculty Students*. Procedia - Social and Behavioral Sciences 174, 448 – 456.

Zemenu, MZ. (2014). *An Investigation of Students' Approaches to Problem Solving in Physics Courses*. International Journal of Chemical and Natural Science. Vol.2, No.1, 2104: 77-89.